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SEVENTH ANNUAL REPORT

OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN,

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES, AND DEATHS,

FOR THE YEAR 1873.



THE PROPERTY OF THE NEW YORK HOSPITAL.

BY AUTHORITY.

LANSING, MICH.:
W. S. GEORGE & CO., STATE PRINTERS AND BINDERS.
1879.

STATE DEPARTMENT, MICHIGAN,
SECRETARY'S OFFICE,
Lansing, May 15th, 1879.

HON. CHARLES M. CROSWELL,

Governor of Michigan:

SIR:—I herewith submit the Seventh Annual Report of this Department, relative to Births, Marriages, and Deaths.

Very respectfully,

WM. JENNEY,

Secretary of State.

26725

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SEVENTH REGISTRATION REPORT

CONCERNING

VITAL STATISTICS OF MICHIGAN, 1873.

GENERAL REMARKS AND STATEMENTS.

When a birth, marriage, or death occurs, the publication of the fact is an item of news, interesting to friends and acquaintances, and perhaps to others interested in the welfare of the family; and this interest may be transient, or the publication of the birth, marriage, or death some time after it has occurred may be devoid of interest, because no longer news; but with vital statistics such are not the facts, because in them no single individual can be followed, no individual names are saved, no personal interest can enter there, the valuable conclusions are gradually, not hastily reached, and therefore are not strictly items of news, and the main interest which attaches to vital statistics is a scientific interest in the various important questions which are to be solved by means of such statistics properly and thoroughly digested,—questions which, though dealing largely with the facts of dead people and children just born, have much to do with the lives of the people now living, and with those yet to live after us; for it is the main purpose of these statistics to supply such knowledge of the deaths from preventable causes that hereafter many such deaths in every year may be prevented. For this purpose statistics of the deaths of persons fifty or a hundred years ago would be just as valuable as of those who died last year, if only the record of coincident conditions were made complete, because we have reason to believe that the causes of deaths then were not very different from what they are now. It is, however, needful to know and to have on record a great many facts concerning each child born and each person who dies,—and it has been found impossible to secure the best knowledge of these facts unless they are placed upon record immediately on the occurrence of the birth or death; it is also needful to have a record

many facts relating to the conditions existing at the time of such deaths, and it is needful to so compare and combine these various facts with the facts relating to the persons who died and relating to the causes of deaths as that we may learn the actual causes of the deaths which have been returned as due to such prominent diseases as inflammation of the lungs, typhoid fever, etc., —so that at least a large proportion of the deaths from such diseases may be avoided by those who will listen to the teaching of the statistics.

It thus appears that the nature of the work which the compiler of vital statistics undertakes is somewhat new, and, though very promising, is exceedingly difficult.

In order to arrange the facts of vital statistics in accordance with the methods of science, it is essential that the compiler shall be able to form hypotheses or questions concerning which it is, for some reason, desirable to have evidence, and to so plan the tables, exhibits and diagrams as to group the facts at his command in a way to exhibit the evidence on such questions or hypotheses. Obviously, one who has little knowledge of the subject, will have few questions of importance to which he can frame tables, while one who has made such subjects a life study may have in mind many problems, the solution of which would add materially to the world's useful knowledge on vital subjects. As a basis for effective work, it is essential that the compiler shall hold clearly in mind the important facts in human biology which have been established by the medical profession; he must be prepared to estimate well the effects of the physical forces; he must understand meteorology; above all, he should have a logical mind, because the study of the causes of diseases is one which deals with very complex problems.

In striving to learn from the vital statistics the causes of diseases, one condition essential to success, not mentioned in the preceding paragraph, may be mentioned here: It is the element of time, in which to give the various lines of evidence proper consideration, to properly compare each line of evidence with others, whether derived from the statistics or from the other sciences.

In this connection it seems proper to state in explanation of the delay in the publication of this volume, that at the time the State Board of Health was established, the publication of the vital statistics was somewhat delayed, because of much statistical work by the compiler, in the State Department, chiefly for the volume of "Statistics of Michigan, 1870"—a volume of over eight hundred pages,—compiled from data supplied by the U. S. census of 1870. The law establishing the State Board of Health provides that the Secretary of the State Board of Health shall be the Superintendent of Vital Statistics; and it seems proper to unite the two lines of evidence—concerning deaths in the vital statistics and concerning diseases in the work of the Board; but the work of beginning the original researches, in several different directions, which have been started by the State Board of Health, has been very great, and after performing the duties which each day has brought, the Secretary has not found so much time left which he could devote to the Vital Statistics as he had hoped. It seems to be a rule that in new undertakings the requirements generally prove greater than was anticipated, and the experience which the Secretary has had in his part of the work inaugurated by the State Board of Health, has not been an exception to this rule. Now that the work of the Board is so well started and systematized it is hoped that the bringing of the publication of the Vital Statistics up near the time of collection may be accomplished without sacrificing the main object of their collection which the

law indicates is the making of them "of practical utility."* So far as relates to the statistics of deaths, the aim has been to utilize the facts collected in systematic studies and investigations into the causes of deaths, from each of the prominent diseases named in the returns of deaths. This has seemed to the compiler to be the main object of the collection of these statistics,—to be the reason of their existence. To throw the facts into tables such as have been formed of such statistics from the first attempts at their collection is comparatively an easy task, but with such tables no very valuable results can be reached. It is an exceedingly difficult work to so plan tables, exhibits, diagrams, and statements of results of research by means of vast numbers of facts, relating to decedents, deaths, and coïncident conditions, as that something important shall be learned concerning the causes of diseases or of deaths. It is believed, however, that even in the comparatively few years, during which these statistics have been collected in Michigan, important knowledge has been gained concerning the causes and means of avoiding some of the diseases which cause the greatest number of deaths. In this connection reference may at least be made to pneumonia—inflammation of the lungs—many of the deaths from which it seems probable may now be avoided by observing the evidence elaborated in these statistics.

THE VALUE OF VITAL STATISTICS, AND OF SUCH KNOWLEDGE AS IT IS ATTEMPTED TO COLLECT, COLLATE AND PUBLISH IN THESE VOLUMES.

It seems evident that the object of obtaining any kind of knowledge is that our lives may be more certain, perfect, complete and pleasant. Some knowledge tends directly and immediately to render it possible for us to live, whereas without it we might cease to exist; other knowledge tends indirectly or remotely to render our lives more certain and more perfect; and some to render it possible for us to live longer than we should without it. Scientific studies are valuable chiefly because we have come to know that sooner or later knowledge of all such facts as science collects and classifies tends to increase man's control over nature, and to render his life more certain, perfect and complete. Among the sciences some are not so immediately and practically applicable to the preservation of life as are others, but are valuable as studies of the truths of nature which are known to be ultimately valuable as truths; while some of the sciences deal with subjects of vital and immediate importance in their application; such, for instance, as biology, of which the most ignorant must know something, or they would lose their lives immediately. Some of the most striking facts in biology are soon learned, as that certain animals, including human beings, lose their lives when kept under water, that certain mutilations cause death, and that death may result from falling a great distance. There are numerous other facts which, to those who have given special attention to such studies, are almost as plain as the ones just mentioned, but which to the great mass of mankind are unknown and consequently not acted upon. It is a function of the State Board of Health to disseminate such facts among the people. Among the leading students in biology and sanitary science, it is well understood, however, that the knowledge in their possession, even though so far in advance of that of the people, is small compared with that which awaits their further researches; but their further progress is extremely difficult until the

*Section 814 Compiled Laws of 1871.

people come up somewhere near their leaders in this direction. This is so because a large proportion of the facts relating to the diseases and deaths must be obtained from the people, and for the general and successful collection of these facts it is needful to have well-devised laws for the collection of vital statistics, which can only be secured when legislators come to appreciate the importance of the subject, and to understand what facts are needed for such research, or will consent to give force to the demands of experts in such special studies; then, after a good law is secured, the people who contribute the statements of facts concerning the deaths, etc., must have sufficient appreciation of the subject to be willing to give the necessary attention to the subject to properly understand and answer the questions provided in the law.

In each of these annual reports it has been pointed out how the law for the collection of these statistics may be greatly improved. In the interests of life and health for the people of this State, it is very much to be hoped that before many years shall pass the law-makers in this State may come to appreciate the great wastefulness, in human life and in money, which now results, even in this healthful State, from sickness and deaths from preventable causes, and that they will either consent to such modification of the laws for the collection of these statistics, needed for the proper study of these diseases with a view to their prevention, as is recommended by those familiar with their collection and use, or will in some way devise such laws as shall best advance the interests of the people in this most important subject of life and health, a subject which should be considered to be of surpassing interest to every man, woman, and child in the State.

This plea for the attention of the people to this subject of vital statistics and the causes of death is made in perfect and sincere belief that the subject is of far greater importance than is generally believed, that the people may profitably give up many of their studies and much of their reading on subjects usually thought to be important, and devote more of their time and energies to searching out the causes of death and to removing them from the surroundings of their friends and neighbors, that their lives may thereby be made more certain, perfect, and prolonged.

Under present circumstances, the last and what should be the best end of life is, for a large proportion even of the intelligent classes of people, embittered by ill-health that might have been prevented by acting upon such knowledge as is in the possession of our leaders in this field; and the means for its prevention would not have detracted from, but would have added to the enjoyment of earlier life. Again, under present circumstances, children born to us to cheer and care for us in our old age, and to uphold thereafter the family name, are cut off in their infancy,—that children will live is extremely uncertain. And yet the causes of this great mortality among our children are many of them known to the leading hygienists, and may be known to the people, if they will only study the subject. And the impulse for such study should arise when the assurance is given by those who do study the subject that the deaths are known to be in great part preventable. On this subject, the late Dr. George Derby, of Boston, Mass., the first secretary of the first State Board of Health in the United States, said: "We have only to open our eyes to the demonstrations of these latter days to be assured that immunity from some of the most destructive diseases is within our power; not perhaps within our individual power, but that they are capable of control, limitation, extinction even, by associated effort.

"Such demonstrations as those to which we have referred were not possible until the system of registration of population and mortal diseases became a part of the established law of civilized communities. Political economists and statesmen had seen the waste of life, and philanthropists had seen the suffering, but in the absence of vital statistics no one could prove what many intelligent minds perceived. At the present day we stand face to face with facts of the deepest interest, showing the comparative duration of life in different communities, the causes of deaths, the influences of soil, of climate, of race, of inheritance, of occupation, of contagion, of putridity."

Referring to these remarks by Dr. Derby, Dr. Granville P. Conn, Secretary of the New Hampshire Medical Society, says: "At a glance, we are able to comprehend that all this contemplates a most thorough registration of vital statistics, and, in order to fully investigate the cause and exercise due care in preventing the development and spread of disease, we need municipal regulations that will ensure prompt and accurate returns."

In closing this plea for increased attention by all classes of people to the importance of the subject of Vital Statistics, the opinion of one prominent in the public health service of this State may be given, as follows. In speaking of the uses of such statistics in investigations into the causes of deaths with a view to the prevention of such deaths, Prof. R. C. Kedzie, President of the State Board of Health, has said: "It was a grand idea to pluck from the laurels of death a balm of healing, by thus comparing and studying the immediate causes of death."

Looking forward hopefully to a time when, under improved laws, even better material for vital statistics may be secured than we now have, the compiler respectfully submits this volume, confident that it contains much which is worthy of careful investigation. If he has succeeded in so grouping these statistics that more valuable knowledge is or may be gained than has otherwise been obtained concerning any disease, or important cause of deaths, he will be amply repaid for the anxious thought devoted to the subject, though his satisfaction with the work can only come from a consciousness of having done his best to make the statistics a valuable contribution in the interests of public health.

HENRY B. BAKER,
Superintendent of Vital Statistics.

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN,

DURING THE YEAR 1873.

EXHIBIT A.—*Births, Marriages, and Deaths Returned as having occurred in Michigan for the Years 1868, 1869, 1870, 1871, 1872, and 1873, including those in unknown month; also, for the Years 1871, 1872, and 1873, the Births, Marriages, and Deaths, and Excess of Births over Deaths, after the Number of Births and Deaths have been Corrected for Omissions in the Returns.*

		1868.	1869.	1870.	1871.	1872.	1873.
As Returned.	Marriages[a]	8,647	10,303	9,730	10,528	10,536	10,574
	Births	25,020	27,093	26,663	25,992	27,993	34,606
	Deaths	8,235	9,145	10,766	9,728	13,371	14,258
	Excess of Births over Deaths	16,785	17,948	15,897	16,264	14,622	20,350
As corrected for Omissions.	Births	----------	----------	----------	37,104	43,081	45,088
	Deaths	----------	----------	----------	15,723	21,101	20,312
	Excess of Births over Deaths	----------	----------	----------	21,381	21,980	24,776

[a] Corrected, for additional returns, up to May 1, 1875.

Exhibit A is designed to convey an idea of the relation of the Births, Marriages, and Deaths to each other in 1873, and to the Births, Marriages, and Deaths in preceding years. The exhibit has been improved by making it to contain the additional statements of Births and Deaths, and excess of births, corrected for omissions in enumeration, for the years 1871, 1872, and 1873.

The reasons for the "correction for omissions in the enumeration" of births and deaths have been fully stated in previous Reports, as have also the details of the methods of such corrections. The corrections involve an immense labor, in the compilation, in order to make these statistics "of practical utility," as the law contemplates. It is believed that this great labor might easily be saved by a proper law for the collection of the statistics, and that the statistics would then be of much greater value than now. It may be stated briefly that it is believed that, in round numbers, only about three-fourths of the births and not much over one-half of the deaths are now reported, because of the defect in the law, which does not provide for the immediate placing of the facts upon record,

the record not being begun until more than a year has been allowed to pass after some of the births and deaths occurred. The omissions being somewhat in proportion to the time which passes before the facts are recorded, they are greater for the earliest months of the year, so that even the correct proportion of the births and deaths in the several months cannot be accurately learned without making the laborious "corrections for omissions in the enumeration"; and, after all the labor, such estimated corrections are by no means as satisfactory as are statements of facts properly recorded. It must be admitted by any intelligent person who thoroughly examines the subject that the knowledge gained by means of our present imperfect Vital Statistics is very valuable,—there is reason to believe that we have already thus gained a good knowledge of the causes of at least one of our most fatal diseases; but in the study of the causes of diseases and deaths we certainly ought to be permitted to have as good records as we do of the transfers of real estate.

EXHIBIT B.—*Statements concerning Births, Marriages, and Deaths in Michigan, during the Years 1870, 1871, 1872, and 1873.*

	1870. [b]	1871. [b]	1872. [b]	1873. [b]
Inhabitants represented by returns of marriages to one marriage. [a]	120.94	111.76	112.23	111.77
In population represented by marriages, males to one marriage	63.10	58.32	58.59	58.33
In population represented by marriages, females to one marriage	57.84	53.45	53.64	53.44
Male inhabitants at ages at which marriages occurred to one marriage	37.22	36.71	35.72	35.57
Female inhabitants at ages at which marriages occurred to one marriage	37.87	36.39	34.93	36.21
Inhabitants represented by births to each child born	43.43	44.13	41.77	34.07
Inhabitants, males to each male child born	43.59	43.97	42.19	34.35
Inhabitants, females to each female child born	43.57	44.57	41.58	33.90
Inhabitants, females aged 16 to 45 to each child born	9.35	9.51	8.98	7.32
Children born to 100 females aged 16 to 45	10.68	10.52	11.13	13.66
Inhabitants represented by deaths to one death	107.13	117.54	86.61	82.46
Inhabitants, males to one death of male	107.48	114.75	84.09	80.16
Inhabitants, females to one death of female	107.50	121.67	89.93	85.34
Deaths, males to 100 females	108.73	115.17	116.55	116.10
Births, males to 100 females	108.80	110.21	107.46	107.67
Total population of State, males to 100 females	109.22	109.22	109.22	109.22
Births to one death	2.47	2.67	2.09	2.43
Births, males to one death of male	2.47	2.62	2.01	2.34
Births, females to one death of female	2.47	2.74	2.18	2.52
Children born of which the sex was unknown or not stated	91.00	69.00	83.00	68.00
Deaths of which the sex was unknown or not stated	37.00	35.00	27.00	17.00
Natural daily increase of population as per births and deaths returned	43.55	44.56	39.95	55.76
Natural daily increase of population when returns are corrected as in 4th line of Exhibit A, page 8, and Exhibit C, page 114	.....	58.58	60.06	67.88

[a] Marriages corrected, for additional returns, up to May 1, 1875. See page 107.
[b] In computing statements for this column, the inhabitants June 1, 1870, were used.

Exhibit B contains many interesting statements relating to the Births, Marriages, and Deaths returned as having occurred in 1873, and also permits of comparisons of such statements with the same for preceding years; and some of the statements for previous years have been somewhat corrected because of additional returns since last report.

TABLE I.—*The Number of Marriages, Births, and Deaths, and Excess of Births over Deaths in the State of Michigan during the year, and the Average Number and Excess during Specified Periods of Time within the year 1873, as returned, and the same for Births and Deaths as corrected for Omissions in Enumeration.*

	Periods of Time.	Marriages.	Births.	Deaths.	Excess of Births over Deaths.
Births and Deaths as Returned.	Year, 1873	10,574.00	34,608.00	14,258.00	20,350.00
	Quarter	2,643.50	8,652.00	3,564.50	5,087.50
	Month	881.17	2,884.00	1,188.17	1,695.83
	Week	203.35	665.54	274.19	391.35
	Day	28.97	94.82	39.06	55.76
Births and Deaths as Corrected.[a]	Year, 1873	----------	45,018.00	20,243.00	24,775.00
	Quarter	----------	11,254.50	5,060.75	6,193.75
	Month	----------	3,751.50	1,686.92	2,064.58
	Week	----------	865.73	389.29	476.44
	Day	----------	123.34	55.46	67.88

[a] Births and Deaths in unknown months excluded.

Exhibit I. is a new one, published this year for the first time, and shows, by months, the number of Births and Deaths, and the Excess of Births over Deaths, for each of the years 1867–1873, also the monthly averages of excess for the six years 1868–1873.

This Exhibit shows that the greatest excess of Births was during the year 1873, perhaps because for that year an unusual proportion of both the Births and the Deaths which occurred were returned, as it has been found that correcting the births and deaths for omissions in the enumeration increases the excess of births over deaths. The line representing the monthly averages of excess for the six years 1868–1873, shows that the largest excess was in December, the smallest in February; that is, the teaching of this Exhibit is that December contributes most largely to the natural increase of population. It must be remembered, however, that a larger proportion of the births and deaths which occur are returned in December than in the earlier months of the year, because the time of enumeration is not so long after the occurrence of the births and deaths in December as of those in January.

EXHIBIT I.—*By Months, the Births, Deaths, and Excess of Births over Deaths in Michigan during each of the Years 1867 to 1873, inclusive.*

		Total. a	MONTHS.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1867	Births	.....	.....	.....	... ..	1,573	1,372	1,385	1,542	1,704	1,641	1,661	1,502	1,554
	Deaths	.....	.....	.....	.....	532	383	346	373	512	627	555	485	518
	Excess of Births	.....	.....	.....	.....	1,041	989	1,039	1,169	1,192	1,014	1,106	1,017	1,036
1868	Births	24,641	1,699	1,759	2,043	1,607	2,037	1,944	2,163	2,399	2,362	2,246	2,099	2,283
	Deaths	8,105	535	583	699	486	503	482	747	983	1,041	776	602	668
	Excess of Births	16,536	1,164	1,176	1,344	1,121	1,534	1,462	1,416	1,416	1,321	1,470	1,497	1,615
1869	Births	27,023	1,658	1,752	2,005	2,042	2,221	2,085	2,466	2,731	2,682	2,508	2,361	2,512
	Deaths	9,097	436	561	761	712	652	630	687	1,068	1,194	874	686	836
	Excess of Births	17,926	1,222	1,191	1,244	1,330	1,569	1,455	1,779	1,663	1,488	1,634	1,675	1,676
1870	Births	26,531	1,604	1,737	2,099	2,076	2,275	2,140	2,339	2,559	2,602	2,480	2,233	2,387
	Deaths	10,731	421	553	724	678	689	754	1,084	1,473	1,363	1,132	933	927
	Excess of Births	15,800	1,183	1,184	1,375	1,398	1,586	1,386	1,255	1,086	1,239	1,348	1,300	1,460
1871	Births	25,926	1,737	1,688	1,987	1,899	2,046	1,898	2,171	2,536	2,518	2,478	2,329	2,639
	Deaths	9,671	529	578	781	721	750	626	788	1,063	1,055	933	798	1,029
	Excess of Births	16,255	1,208	1,110	1,206	1,178	1,296	1,272	1,383	1,453	1,463	1,545	1,531	1,610
1872	Births	27,965	1,774	1,899	2,195	2,253	2,281	2,250	2,413	2,817	2,713	2,428	2,357	2,585
	Deaths	13,341	602	756	941	1,140	979	815	1,050	1,738	1,653	1,321	1,058	1,288
	Excess of Births	14,624	1,172	1,143	1,254	1,113	1,302	1,435	1,363	1,079	1,060	1,107	1,299	1,297
1873	Births	34,538	2,112	2,249	2,847	2,711	2,794	2,599	2,915	3,342	3,436	3,165	3,017	3,351
	Deaths	14,189	859	1,104	1,248	1,174	1,121	1,040	1,176	1,535	1,471	1,258	1,067	1,136
	Excess of Births	20,349	1,253	1,145	1,599	1,537	1,673	1,559	1,739	1,807	1,965	1,907	1,950	2,215
Monthly Averages of Excess for 1868 to 1873, inclusive.		16,916	1,201	1,158	1,337	1,280	1,493	1,428	1,489	1,417	1,423	1,502	1,542	1,646

a Unknown month excluded.

Exhibit 2 is similar to one published in last Report with the statistics of Births, but as it relates to Births, Marriages, and Deaths, it is thought best this year to publish it in this part of the Report. It contains the statistics for 1873, and in that portion of it published in the last Report some corrections have been made in the statements for Marriages because of additional returns.

EXHIBIT 2.—*Births in Michigan by months during the years 1870, 1871, 1872, and 1873, and Marriages and Deaths during Months of Conception of the Births,—all months Equalized to Uniform Length of 30.44 days.*

		Total.[a]	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Average Month.
Births equalized to months of uniform length	1870	26,531	1,576	1,888	2,061	2,106	2,234	2,171	2,296	2,513	2,641	2,435	2,266	2,344	2,211
	1871	25,919	1,706	1,834	1,951	1,927	2,009	1,926	2,132	2,490	2,555	2,434	2,364	2,591	2,160
	1872	27,904	1,742	1,996	2,155	2,286	2,240	2,283	2,370	2,766	2,753	2,384	2,391	2,538	2,325
	1873	34,538	2,074	2,445	2,796	2,751	2,744	2,637	2,863	3,282	3,486	3,108	3,061	3,291	2,878
			April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Average Month.
Marriages[b] equalized to months of uniform length.	1869 & 1870	10,490	774	801	687	817	707	908	1,018	1,080	1,160	831	889	818	874
	1870 & 1871	9,741	770	770	621	795	605	763	898	977	992	908	846	796	813
	1871 & 1872	10,349	895	744	655	895	716	874	1,003	1,033	1,152	811	741	830	863
	1872 & 1873	10,733	893	736	717	931	754	868	1,024	1,062	1,132	946	844	826	894
Deaths equalized to months of uniform length.	1869 & 1870	9,039	722	640	639	675	1,049	1,212	858	696	821	414	602	711	753
	1870 & 1871	10,922	688	677	766	1,066	1,449	1,385	1,113	948	912	521	629	768	910
	1871 & 1872	10,062	733	737	635	774	1,065	1,071	916	810	1,012	591	794	924	839
	1872 & 1873	14,262	1,156	961	827	1,031	1,707	1,677	1,297	1,073	1,264	844	1,200	1,225	1,189

[a] Unknown month excluded.

[b] Marriages corrected, for additional returns, up to May 1, 1875.

EXHIBIT C.—*The Number of Persons Married, the Number of Children born, and the Number of Decedents in Michigan during the year 1873, to 100 Inhabitants June 1, 1870, of the same Nativity and Sex.*

NATIVITY OF INHABITANTS, OF PERSONS MARRIED, OF DECEDENTS, AND OF PARENTS OF CHILDREN BORN.[a]	TO 100 INHABITANTS JUNE 1, 1870,								
	PERSONS MARRIED, 1873.			CHILDREN BORN, 1873.			DEATHS, 1873.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Native	1.38	1.30	1.37	1.76	1.77	1.75	1.26	1.31	1.21
Foreign	1.65	1.48	1.86	4.50	4.22	4.82	.88	.88	.88

[a] In Persons married, and Parents, only those cases are included where both parties are "Native" or "Foreign."

EXHIBIT D.—*Grouping the evidence of the Vital Statistics on the subject of the Comparative Natural Increase of Native and Foreign-born Inhabitants of Michigan, by Excess of Births over Deaths; the Evidence Exhibited covering the Years 1869, 1870, 1871, 1872, and 1873.*

BIRTHS, DEATHS, AND EXCESS OF BIRTHS.	1869.			1870.			1871.			1872.			1873.		
	Total.	Both Parents of Children Native. Deaths of Native-born.	Both Parents of Children Foreign. Deaths of Foreign-born.	Total.	Both Parents of Children Native. Deaths of Native-born.	Both Parents of Children Foreign. Deaths of Foreign-born.	Total.	Both Parents of Children Native. Deaths of Native-born.	Both Parents of Children Foreign. Deaths of Foreign-born.	Total.	Both Parents of Children Native. Deaths of Native-born.	Both Parents of Children Foreign. Deaths of Foreign-born.	Total.	Both Parents of Children Native. Deaths of Native-born.	Both Parents of Children Foreign. Deaths of Foreign-born.
Births, by Parent-Nativity	[a] 27,093	13,050	8,043	[a] 26,663	12,395	8,604	[a] 25,992	11,374	8,734	[a] 27,993	12,907	9,721	[a] 34,608	16,202	11,946
Deaths, by Nativity	[b] 9,145	[c] 7,517	[d] 1,275	[b] 10,766	[c] 8,804	[d] 1,609	[b] 9,728	[c] 7,759	[d] 1,608	[b] 13,371	[c] 10,812	[d] 2,146	[b] 14,248	[c] 11,600	[d] 2,334
Excess of Births over Deaths	17,948	5,543	6,768	15,897	3,591	6,995	16,264	3,615	7,126	14,622	2,095	7,575	20,360	4,602	9,612

[a] Includes children of mixed parentage, and those where the Nativity of one or both parents was unknown.

[b] Includes deaths of persons of unknown nativity.

[c] Includes all deaths of persons born in the United States, whether born of Native or of Foreign-born parents.

[d] Includes only persons who were born in Foreign countries.

It is much to be regretted that the evidence on the subject attempted to be studied in Exhibit D is so slight. We need to know the nativity of the parents of the persons who die. Efforts have been made, at each session of the legislature, for an improved law for the collection of these statistics, but thus far without success.

TABLE II.—*Exhibiting, by Sex, the Population June 1, 1870, the Number of Marriages, Births, and Deaths, and the Excess of Births over Deaths in Michigan during the Year 1873.*

STATE AND COUNTIES.	Population June 1, 1870.			Marriages, 1873.	Births, 1873.				Deaths, 1873.				Excess of Births over Deaths.[a]			
	Total.	Sex.			Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females.			Males.	Femal'a.	Unknown.		Males.	Femal'a.	Unknown.		Males.	Femal'a.	Unknown.
State	1,184,282	618,251	566,031	10,574	34,608	17,908	16,632	68	14,258	7,651	6,590	17	20,350	10,257	10,042	51
Alcona[b]	766	441	325	4	40	22	18	.....	17	11	6	.....	23	11	12	.....
Allegan	32,105	17,000	15,105	242	796	404	392	.....	453	215	238	.....	343	189	154	.....
Alpena[c]	2,756	1,719	1,037	42	161	89	72	.....	44	23	21	.....	117	66	51	.....
Antrim[d]	1,985	1,118	867	42	54	33	21	.....	26	11	15	.....	28	22	6	.....
Barry	22,200	11,646	10,554	184	586	299	287	.....	250	121	129	.....	336	178	158	.....
Bay	15,900	8,914	6,986	150	708	382	416	.....	279	150	127	2	519	232	289	-2
Benzie[e]	2,184	1,168	1,016	23	81	36	45	.....	26	18	8	.....	55	18	37	.....
Berrien	35,104	18,063	17,041	329	821	418	402	1	461	245	216	.....	360	173	186	1
Branch	26,227	13,248	12,979	232	557	294	263	.....	219	122	97	.....	338	172	166	.....
Calhoun	36,571	18,550	18,021	283	735	368	366	1	388	199	188	1	347	169	178	.....
Cass	21,096	10,938	10,158	204	473	257	215	1	175	95	80	.....	298	162	135	1
Charlevoix[f]	1,724	941	783	17	62	19	43	.....	18	8	10	.....	44	11	33	.....
Cheboygan	2,197	1,235	962	23	106	53	53	.....	22	12	10	.....	84	41	43	.....
Chippewa[g]	1,690	930	760	10	40	17	23	.....	21	14	7	.....	19	3	16	.....
Clare[h]	366	285	81	15	21	12	9	.....	21	14	7	.....	.....	-2	2	.....
Clinton	22,851	11,813	11,038	144	651	331	320	.....	194	89	105	.....	457	242	215	.....
Delta[i]	2,441	1,486	955	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eaton	25,163	12,949	12,214	179	655	337	313	5	285	152	131	2	370	185	182	3
Emmet[j]	1,211	629	582	5	41	23	18	.....	35	15	20	.....	6	8	-2	.....

Genesee	33,895	17,449	16,446	209	736	372	364		343	185	158		393	187	206	
Grand Traverse	4,443	2,389	2,054	31	123	67	56		41	23	18		82	44	38	
Gratiot	11,808	6,189	5,619	121	430	223	207		143	77	66		287	146	141	
Hillsdale	31,688	16,104	15,584	308	591	308	282	1	317	159	156	2	274	149	126	-1
Houghton	13,882	7,745	6,137	191	612	329	283		214	125	89		398	204	194	
Huron	9,048	5,036	4,012	90	437	221	216		113	53	60		324	168	156	
Ingham	25,268	13,096	12,172	269	654	368	286		242	131	110	1	412	237	176	-1
Ionia	27,675	14,452	13,223	292	660	350	310		258	141	117		402	209	193	-2
Iosco [k]	3,175	1,913	1,262	46	134	68	65	1	68	39	26	3	66	29	39	
Isabella [l]	4,113	2,211	1,902	31	161	85	76		69	39	30		92	46	46	
Jackson	36,040	19,056	16,984	281	891	452	436	3	333	183	150		558	269	286	3
Kalamazoo	32,065	16,522	15,543	290	732	367	364	1	275	143	132		457	224	232	1
Kalkaska [m]	424	244	180	4	42	19	23		17	11	6		25	8	17	
Kent	50,410	26,166	24,244	588	1,043	872	766	5	700	387	313		943	485	453	5
Keweenaw [n]	4,206	2,327	1,879	26	183	92	91		63	41	22		120	51	69	
Lake	548	305	243	11	60	37	23		19	11	8		41	26	15	

[a] The figures with the minus sign placed before them indicate the excess of deaths over births.

[b] Includes population of Oscoda county.

[c] No returns of births from townships of Ossineke and Wilson.

[d] No returns of deaths from townships of Central Lake and Torch Lake, and no returns of births or deaths from township of Otsego Lake.

[e] No returns of deaths from townships of Benzonia, Colfax, Joyfield, and Weldon.

[f] No returns of deaths from township of Eveline, and no returns of births or deaths from townships of Boyne Valley and Evangeline.

[g] No returns of births or deaths from township of Sugar Island.

[h] No returns of deaths from township of Winterfield.

[i] No returns of marriages, births, or deaths.

[j] No returns of births from township of LaCroix.

[k] No returns of deaths from townships of Grant and Thompson, and no returns of births or deaths from townships of Edwards and Ogemaw.

[l] No returns of births from township of Sherman, and no returns of deaths from townships of Broomfield and Fremont.

[m] No returns of deaths from townships of Boardman, Orange, and Wilson.

[n] No returns of births or deaths from township of Isle Royal.

TABLE II.—CONTINUED.

COUNTIES.	POPULATION JUNE 1, 1870.			Marriages, 1873.	BIRTHS, 1873.				DEATHS, 1873.				EXCESS OF BIRTHS OVER DEATHS.[a]			
	Total.	Sex.			Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females.			Males.	Femal'a.	Unknown.		Males.	Femal'a.	Unknown.		Males.	Femal'a.	Unknown.
Lapeer	21,342	11,051	10,291	187	655	366	289	.....	298	156	140	2	357	210	149	-2
Leelanaw	4,577	2,401	2,176	42	158	75	83	.....	46	27	19	.....	112	48	64	.....
Lenawee	45,601	22,916	22,685	454	1,005	528	476	1	406	241	165	.....	599	287	311	1
Livingston	19,335	10,072	9,263	134	476	232	244	.....	168	90	78	.....	308	142	166	.....
Mackinac	1,715	905	810	6	49	22	27	.....	21	13	8	.....	28	9	19	.....
Macomb	27,619	14,096	13,523	200	794	392	400	2	278	142	136	.....	516	250	264	2
Manistee[b]	6,074	3,458	2,616	97	330	181	148	1	101	66	35	.....	229	115	113	1
Manitou[c]	891	488	403	2	24	11	13	.....	7	4	3	.....	17	7	10	.....
Marquette[d]	14,278	8,485	5,793	267	673	364	309	.....	255	174	81	.....	418	190	228	.....
Mason[e]	3,266	1,814	1,452	41	137	68	69	.....	57	28	29	.....	80	40	40	.....
Mecosta	5,645	3,061	2,584	95	245	128	117	.....	92	54	38	.....	153	74	79	.....
Menominee	1,895	1,266	629	22	130	62	68	.....	45	20	25	.....	85	42	43	.....
Midland[f]	3,283	1,813	1,470	49	97	39	58	.....	66	39	27	.....	31	.....	31	.....
Missaukee	130	76	54	4	19	10	8	1	7	2	5	.....	12	8	3	1
Monroe	27,475	13,950	13,525	236	875	464	406	5	244	135	109	.....	631	329	297	5
Montcalm[g]	13,641	7,284	6,357	171	513	246	267	.....	238	114	124	.....	275	132	143	.....
Muskegon[h]	14,892	8,402	6,490	187	538	271	265	2	229	128	101	.....	309	143	164	2
Newaygo[i]	7,292	3,910	3,382	81	229	124	105	.....	103	51	51	1	126	73	54	-1
Oakland	40,906	21,135	19,771	239	718	360	358	.....	304	147	157	.....	414	213	201	.....
Oceana	7,222	3,948	3,274	31	262	128	133	1	108	49	59	.....	154	79	74	1
Ontonagon[j]	2,846	1,430	1,416	21	74	32	42	.....	23	15	8	.....	51	17	34	.....

Osceola[k]	2,104	1,167	937	62	204	118	85	1	68	43	25	.....	136	75	60	1
Ottawa	26,650	14,050	12,600	238	968	507	458	3	376	197	179	.....	592	310	279	3
Presque Isle[l]	355	229	126	7	7	3	4	.....	2	.....	2	.....	5	3	2	.....
Saginaw	39,096	21,064	18,034	428	1,482	757	724	1	664	349	315	.....	818	408	409	
Sanilac	14,565	7,722	6,843	89	534	280	254	.....	176	82	94	.....	358	198	160	.....
Schoolcraft	799	519	280	8	21	9	12	.....	17	7	10	.....	4	2	2	.....
Shiawassee	20,822	10,815	10,007	116	517	273	242	2	191	93	98	.....	326	180	144	2
St. Clair	36,759	19,011	17,748	290	1,130	596	532	2	494	268	226	.....	636	328	306	2
St. Joseph	26,272	13,480	12,792	276	492	240	252	.....	201	107	94	.....	291	133	158	.....
Tuscola	13,715	7,263	6,452	121	510	260	248	2	211	114	97	.....	299	146	151	2
Van Buren	28,835	14,907	13,928	261	630	314	316	.....	357	187	170	.....	273	127	146	.....
Washtenaw	41,440	21,478	19,962	234	879	453	425	1	359	183	176	.....	520	270	249	1
Wayne	119,068	59,964	59,104	932	4,368	2,327	2,017	24	1,864	1,043	818	3	2,504	1,284	1,199	21
Wexford[m]	650	344	306	30	98	44	54	.....	33	21	12	.....	65	23	42	.....

[a] The figures with the minus sign placed before them indicate the excess of deaths over births.

[b] No returns of deaths from township of Springdale, and no returns of births or deaths from township of Filer.

[c] No returns of deaths from township of Chandler, and no returns of births or deaths from township of South Manitou.

[d] No returns of births from township of Forsyth.

[e] No returns of births from township of Victory, and no returns of deaths from townships of Branch and Hamlin.

[f] No returns of births from townships of Ingersoll, Lincoln, and Mt. Haley, and no returns of deaths from townships of Ingersoll, Mt. Hayley, Porter, and Roscommon.

[g] No returns of deaths from townships of Belvidere, Home, and Richland.

[h] No returns of deaths from townships of Eggleston and Norton.

[i] No returns of deaths from township of Croton.

[j] No returns of deaths from township of Algonquin.

[k] No returns of deaths from townships of Hartwick, Highland, and Lincoln.

[l] No returns of births or deaths from township of Presque Isle.

[m] No returns of deaths from townships of Cedar Creek, Cherry Grove, Henderson, and Wexford.

EXHIBIT E.—*Showing for the State and Counties of Michigan the Number of Births and Deaths Returned to this Department as having occurred out of Michigan during the years 1870, 1871, 1872, and 1873, and not elsewhere compiled.*

STATE AND COUNTIES.	1870.		1871.		1872.		1873.	
	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
State	264	70	279	82	283	98	467	122
Alcona					1			1
Allegan	5	2	6	2	2	2	2	2
Alpena								
Antrim	2							
Barry	11	1	7	2	3	3	11	1
Bay	7	2	17	1	50	5	23	1
Benzie					2	2		
Berrien	8		8	9	9	8	24	5
Branch	6	1	7	2	5	2	15	3
Calhoun	5	4	1	1	8	5	11	1
Cass	15	2	8		4	6	13	2
Charlevoix					1			
Cheboygan								
Chippewa						1		
Clare					1		1	1
Clinton	3	3	7	1	4	1	9	4
Delta	4	1	5	1				
Eaton	9	3	4	1	2		5	
Emmet		1						
Genesee	6	1	3		3		7	2
Grand Traverse	1					1	1	1
Gratiot	4		7	1	3	1	4	1
Hillsdale	3		7	3	5	2	12	2
Houghton	2		4	1	10	1	6	2
Huron	1		4	4	11	1	5	1
Ingham	2	3	1		2	2	8	2
Ionia	1		1	2			11	3
Iosco	3						1	
Isabella	3		3	3	1	1	3	1
Jackson	17	4	10	4	11	3	16	7
Kalamazoo	8	5	9		8	2	19	6
Kalkaska								
Kent	15	1	29	4	36	9	43	10
Keweenaw							1	

EXHIBIT E.—Continued.

COUNTIES.	1870.		1871.		1872.		1873.	
	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
Lake							1	
Lapeer	3		7		1	2	6	1
Leelanaw	2		1		1	1		
Lenawee	11	10	17	9	13	6	18	7
Livingston	3		3	2	5	2	3	1
Mackinac								
Macomb	6	3	1	1	2		16	
Manistee	9	1	1	1			4	3
Manitou								
Marquette	7	4						
Mason	2				5		5	1
Mecosta	7	2			9		4	
Menominee						1	3	
Midland								7
Missaukee								
Monroe	2	7	4	4	5	1	13	
Montcalm	6		6	1	5		6	3
Muskegon	1	4	16	3	10	4	16	1
Newaygo		1	5				2	
Oakland	2		3		3	1	4	5
Oceana	1		2		2	2	11	2
Ontonagon				1				
Osceola					2	1	5	
Ottawa	4		2		4	1	5	3
Presque Isle								
Saginaw	9		2	1	6		11	4
Sanilac			2		1		5	
Schoolcraft								
Shiawassee	5		2	1	4	2	7	2
St. Clair	9		10	2	10	4	22	3
St. Joseph	5	1	3	1	5		13	
Tuscola	2		6		3	3	10	2
Van Buren	9	1	8	5	2	3	17	2
Washtenaw	9	1	7	2	2	3	8	5
Wayne	9	1	23	6	1	3		6
Wexford							1	

BIRTHS.

The number of births returned as having occurred in Michigan in 1873 was 34,608. This number is considerably larger than has been returned for any year since the registration began. One of the first questions usually asked is: What proportion of the births are returned? The system of correction for omissions in enumeration, explained in the Report for 1871, and indicated in Exhibit A in this Report, is again used; and by this correction it seems probable that the number of births returned for the year 1873 were about 76.88 per cent. of the total number which occurred, and that they should be increased by about 30.38 per cent. in order to equal the number of children which were actually born in this State in 1873, and which it is believed were 45,018, as shown by the fourth line in Exhibit A, on a following page. The 70 births the month of occurrence of which was not stated are not included in the number stated above; if they be added, the whole number is 45,088.

The average number of children for certain periods of time are as follows:

Periods of Time.	Births as Returned.	Births as Corrected.
Per quarter	8,652.00	11,272.00
Per month	2,884.00	3,757.33
Per week	665.54	867.08
Per day	94.82	123.53

The number and proportion of births by quarters of the years, for each of the years 1868–1873, are shown in Table I., which permits of comparing the different years, by quarters; but the omissions in the enumeration are much greater in the first than they are in the last quarter, and it is therefore not very profitable to undertake any comparisons by quarters of the same year, except the births are first corrected for such omissions. This table shows the totals for the years, and it may be seen that there is no uniformity of increase in the total number of births for the several years, such as might be expected from the fact that the population increases from year to year, and from the probabilities that the work of enumeration is more thoroughly done in each succeeding year. The order of succession of the years, the greatest number first, is as follows: 1873 is 34,604; 1872 is 27,993; 1869 is 27,093; 1870 is 26,663; 1871 is 25,992; 1868 is 25,020. This want of uniformity may result from either or both of two causes: first, the actual birth-rate may be greater in those years which show the larger numbers; or, second, the enumeration may be more perfectly done in those years. The enumeration is done in each year by the incumbents of the same offices—the super

it seems probable that there are real differences in the birth-rates for different years, as indicated by Table I., compiled from the returns.

TABLE I.—*Births by Quarters of the Year, exhibiting the Number and Per Cent. of Totals for the years 1868, 1869, 1870, 1871, 1872, and 1873, According to the Returns.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.		1873.	
	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.
Totals.....	25,020	100.00	27,093	100.00	26,663	100.00	25,992	100.00	27,993	100.00	34,608	100.00
March.....	5,501	21.98	5,415	19.98	5,440	20.40	5,412	20.82	5,868	20.96	7,208	20.83
June.....	[a] 5,909	23.61	6,348	23.43	6,491	24.34	5,843	22.48	6,784	24.23	8,104	23.42
September....	6,924	27.67	7,883	29.09	7,500	28.12	7,225	27.79	7,943	28.37	9,693	28.01
December....	6,628	26.49	7,381	27.24	7,100	26.62	7,446	28.64	7,370	26.33	9,533	27.54
Unknown....	[a] 58	.23	66	.24	132	.49	66	.25	28	.10	70	.20
Average [b]....	6,255	25.00	6,774	25.00	6,665	25.00	6,498	25.00	6,998	25.00	8,652	25.00

[a] See notes to month of April and Unknown, in Table II.
[b] The number in Unknown quarter of year included.

Table II. shows the number and proportion of births returned as having occurred in each month for each of the years 1868–1873. It should be constantly borne in mind that the proportion omitted in the enumeration is greater in the first than in the last part of the year. This will prevent comparisons of months in the same year, but the different years may be compared by months. According to Table II., the last six months of the year are among those having more than a monthly average number and proportion of births in each year except in 1870, when May and November exchange places. In three of the six years, August shows the greatest number and proportion of births; in two, September heads the list, and in one, December has the largest number. January contains the smallest number and proportion, and February next, in each year except 1871, when February shows the least number, and January next.

TABLE II.—*Births during the years 1868, 1869, 1870, 1871, 1872, and 1873, According to the Returns, exhibiting the Number and Per Cent. of Total, by Months, Arranged in Order by Number, months having the Greatest Number first.*

Order.	1868.			1869.			1870.			1871.			1872.			1873.		
	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.
	Total....	25,020	100.00	Total....	27,093	100.00	Total....	26,663	100.00	Total....	25,992	100.00	Total....	27,993	100.00	Total....	34,608	100.00
1..	Aug.....	2,399	9.58	Aug.....	2,731	10.08	Sept.....	2,602	9.75	Dec.	2,639	10.15	Aug.....	2,817	10.06	Sept.....	3,436	9.93
2..	Sept.....	2,362	9.44	Sept.....	2,681	9.89	Aug.....	2,559	9.59	Aug.....	2,536	9.75	Sept.....	2,713	9.69	Dec.	3,351	9.68
3..	Dec.....	2,283	9.12	Dec.	2,512	9.27	Oct.....	2,490	9.30	Sept.....	2,518	9.68	Dec.	2,585	9.23	Aug.....	3,342	9.66
4..	Oct.....	2,246	8.97	Oct.....	2,508	9.22	Dec.	2,387	8.95	Oct.....	2,478	9.53	Oct.....	2,428	8.67	Oct.....	3,165	9.15
5..	July.....	2,163	8.64	July.....	2,471	9.12	July	2,339	8.77	Nov.....	2,329	8.96	July	2,413	8.62	Nov.....	3,017	8.72
6..	Nov.....	2,099	8.38	Nov.	2,361	8.71	May.....	2,275	8.53	July.. ..	2,171	8.35	Nov.....	2,357	8.42	July	2,915	8.42
7..	Mar.....	2,043	8.16	May	2,221	8.19	Nov.....	2,233	8.37	May.....	2,046	7.87	May.....	2,281	8.15	Mar.	2,847	8.23
8..	May.....	2,037	8.10	June....	2,085	7.69	June....	2,140	8.02	Mar.	1,987	7.64	April....	2,253	8.06	May	2,794	8.07
9..	June	1,944	7.76	April ...	2,042	7.53	Mar.	2,099	7.87	April....	1,899	7.30	June....	2,250	8.04	April....	2,711	7.83
10..	April...[a]	1,928	7.70	Mar.	2,005	7.40	April. ..	2,076	7.78	June....	1,898	7.30	Mar.	2,195	7.84	June....	2,599	7.51
11..	Feb.	1,759	7.03	Feb.	1,752	6.46	Feb.	1,737	6.51	Jan.....	1,737	6.68	Feb.	1,899	6.78	Feb.	2,249	6.50
12..	Jan.....	1,699	6.79	Jan.....	1,658	6.11	Jan.....	1,604	6.01	Feb.	1,688	6.49	Jan.....	1,774	6.34	Jan.....	2,112	6.10
	Unkn'wn[b]	58	.23	Unk'wn.	66	.24	Unk'wn.	132	.49	Unk'wn.	66	.25	Unk'wn.	28	.10	Unk'wn.	70	.20
	Average.	2.085	8.33	Average	2,257.75	8.33	Average	2,221.91	8.33	Average	2,166	8.33	Average	2,332.75	8.33	Average	2,884	8.33

[a] The number of births in April, 1868, as published in the Second Registration Report, was 1,607; but this number only represented twenty-five days. Thirty days, at the same rate, would give the number stated in this table.

[b] This number was obtained by adding three-twelfths of the number of births in unknown months, stated in the First Registration Report, to the whole number stated in the Second Report, which was for the remaining nine months of the year 1868.

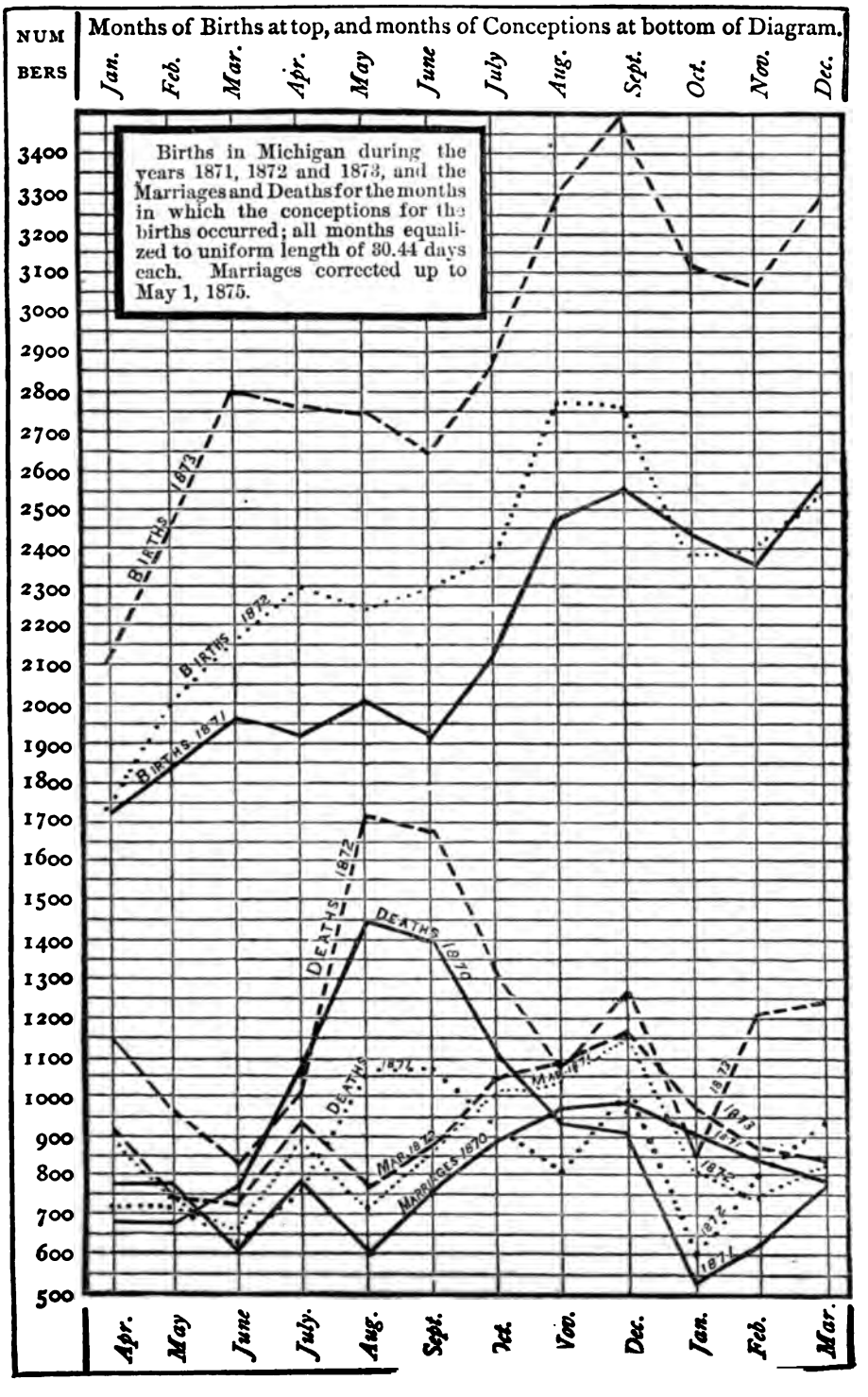
EXHIBIT 2.—*Births in Michigan, by Months, during the year 1873, and Marriages and Deaths during months of Conception of the same,—Births and Deaths as Returned, and as Corrected for Omissions in the Enumeration,—all months Equalized to uniform length of 30.44 days.*

	Total.[a]	Months, 1873.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Av. Month.
Births in 1873, equalized to months of uniform length	*	—	—	—	—	—	—	—	+	+	+	+	+	=
	34,538	2,074	2,445	2,796	2,751	2,744	2,637	2,863	3,282	3,486	3,108	3,061	3,291	2,878.17
Births in 1873, corrected for omissions in enumeration, and equalized to months of uniform length	*	—	—	+	+	—	—	—	+	+	—	—	+	=
	45,032	3,033	3,506	3,928	3,785	3,696	3,476	3,690	4,136	4,293	3,737	3,593	4,159	3,752.67

		Months, 1872.									1873.			
		April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Av. Month.
Marriages,[b] equalized to months of uniform length	*	—	—	—	+	—	—	+	+	+	+	—	—	=
	10,927	901	742	723	940	769	878	1,049	1,078	1,160	974	868	845	910.58
Deaths, equalized to months of uniform length	*	—	—	—	—	+	+	+	—	+	—	+	+	=
	14,262	1,156	961	827	1,031	1,707	1,677	1,297	1,073	1,264	844	1,200	1,225	1,188.50
Deaths, corrected for omissions in enumeration, and equalized to months of uniform length	*	—	—	—	—	+	+	—	—	—	+	+	+	=
	17,886	1,326	1,289	1,073	1,258	1,661	1,606	1,317	1,113	1,327	1,578	2,180	2,158	1,490.50

[a] Excluding unknown month.
[b] Marriages corrected up to March 15, 1876.
[*] On this line the + sign indicates more, the — sign less, than the average number per month—shown in the right-hand column.

DIAGRAM No. 1.


NUMBERS
Months of Births at top, and months of Conceptions at bottom of Diagram.
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.
Births in Michigan during the years 1871, 1872 and 1873, and the Marriages and Deaths for the months in which the conceptions for the births occurred; all months equalized to uniform length of 30.44 days each. Marriages corrected up to May 1, 1875.
3400 3300 3200 3100 3000 2900 2800 2700 2600 2500 2400 2300 2200 2100 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100 1000 900 800 700 600 500
BIRTHS 1873
BIRTHS 1872
BIRTHS 1871
DEATHS 1872
DEATHS 1871
DEATHS 1870
MARRIAGES 1870
Apr. May June July. Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar.

In Exhibit 2, the plus sign indicates more, and the minus sign less than the average number per month.

For the purposes of this Exhibit, the time of conception is presumed to be nine calendar months previous to the month of birth.

Concerning Exhibit 2, propositions may be made as follows:

1. *More* than an average number of conceptions occurred in months in which *more* than an average number of marriages were solemnized, and *vice versa*.

2. *Less* than an average number of conceptions occurred in months in which *more* than an average number of deaths occurred, and *vice versa*.

To the first proposition, in births as equalized there are four exceptions,—in the months of July, October, February, and March; in births as corrected and equalized the exceptional months are June, October, January, and March.

To the second proposition, in births and deaths as returned, equalized to months of uniform length, but not corrected for omissions in enumeration, the proposition does not hold true; the exceptional months are seven, viz.: April, May, June, July, December, February, and March; in births as equalized and deaths corrected and equalized, the exceptional months are eight, viz.: April, May, June, July, October, January, February, and March; in births corrected and equalized and deaths equalized, the exceptions are five, viz.: in April, May, December, January, and March; in births and deaths corrected and equalized, the exceptions are only four, viz.: in April, May, October, and March. That is to say: If we take the numbers as returned, and equalize them to months of uniform length, the teaching of this Exhibit is that a large proportion of deaths is attended with a large proportion of conceptions; but if we use the numbers corrected for omissions in enumeration and equalized to months of uniform length, the evidence goes to show that a large death-rate is accompanied by a small conception-rate.

The first, third, and fourth lines of figures in Exhibit 2 are graphically represented in Diagram No. 1, wherein may be seen the relations which the births, marriages, and deaths sustain to each other,—the diagram being so constructed that the births returned appear directly over the marriages and deaths as having occurred nine months previous.

Exhibits A, B, and C show some of the steps by which the numbers of births as returned are corrected for omissions in the enumeration. This correction is based upon the assumption that the omissions are in proportion to the time which elapses between the time of the occurrence of the births and the time of their enumeration by the officers who make the returns.

The necessity for some correction of this kind was discovered by a series of comparisons, by the compiler, of the statistics collected in this manner by the supervisors and assessors, with statistics relating to the same subjects in the same localities during the same time, collected for the Ninth U. S. Census by the U. S. Marshals. Those researches proved that it would be very misleading to publish the numbers of births or deaths just as returned by the supervisors and assessors, without any statement of the want of accurate proportion of the births or deaths returned in each month.

The method and principle of correction have been fully explained in the two preceding Reports.

EXHIBIT A.—*Births in Michigan during the Year 1873, as Returned, as Corrected for Omissions in the Enumeration, the same Equalized for Increase of Population during the Year covered by the Returns, and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also, indicating some of the steps by which these results have been reached. (Still-births, and Children of unknown Sex included.)*

	Year, 1873.[a]	Months, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by registration officers	[a]34,538	2,112	2,249	2,847	2,711	2,794	2,599	2,915	3,342	3,436	3,165	3,017	3,351
Per cent. of births to be added for correction for time elapsing before enumeration	.....	46.23	43.38	40.49	37.60	34.71	31.82	28.93	26.04	23.14	20.25	17.36	14.47
Number of births to be added for above correction	10,480	977	976	1,153	1,019	970	827	843	870	795	641	524	885
Births, if enumerated in months of occurrence	45,018	3,089	3,225	4,000	3,730	3,764	3,426	3,758	4,212	4,231	3,806	3,541	4,236
Per cent. of births to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	995	130	124	140	118	106	84	79	74	60	40	25	15
Births, as corrected, equalized to population at close of year	46,013	3,219	3,349	4,140	3,848	3,870	3,510	3,837	4,286	4,291	3,846	3,566	4,251
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform lenghth	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the births should be increased or diminished to equalize them to months of uniform length	+19	-58	+292	-75	+56	-70	+51	-69	-77	+63	-69	+52	-77
Births, corrected and equalized, equalized to months of uniform length	46,032	3,161	3,641	4,065	3,904	3,800	3,561	3,768	4,209	4,354	3,777	3,618	4,174

[a] Excluding 70 in unknown month.

EXHIBIT B.—*Births of Males in Michigan during the Year 1873, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increase of Population during the Year covered by the Returns; and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.*

	Year, 1873.[a]	Months, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of males as returned by registration officers	[a]17,880	1,081	1,168	1,469	1,400	1,448	1,316	1,533	1,746	1,778	1,603	1,571	1,767
Per cent. of births to be added for correction for time elapsing before enumeration	.....	46.28	43.38	40.49	37.60	34.71	31.82	28.93	26.04	23.14	20.25	17.36	14.47
Number of births to be added for above correction	5,213	500	507	595	526	503	419	443	455	411	325	273	256
Births, if enumerated in months of occurrence	23,093	1,581	1,675	2,064	1,926	1,951	1,735	1,976	2,201	2,189	1,928	1,844	2,023
Per cent. of births to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	515	67	65	72	61	55	43	42	39	31	20	13	7
Births, as corrected, equalized to population at close of year	23,608	1,648	1,740	2,136	1,987	2,006	1,778	2,018	2,240	2,220	1,948	1,857	2,030
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births added or subtracted to equalize them to months of uniform length	+ 14	- 30	+ 152	- 39	+ 29	- 36	+ 26	- 36	- 40	+ 33	- 35	+ 27	- 37
Births of males, corrected and equalized, equalized to months of uniform length	23,622	1,618	1,892	2,097	2,016	1,970	1,804	1,982	2,200	2,253	1,913	1,884	1,993

[a] Excluding 28 in unknown month.

EXHIBIT C.—*Births of Females in Michigan during the Year 1873, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increase of Population during the Year covered by the Returns; and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.*

	Year, 1873.[a]	Months, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of females as returned by registration officers	[a]16,593	1,029	1,074	1,369	1,304	1,340	1,278	1,376	1,592	1,649	1,561	1,440	1,581
Per cent. of births to be added for correction for time elapsing before enumeration	.....	46.28	43.38	40.49	37.60	34.71	31.82	28.93	26.04	23.14	20.25	17.36	14.47
Number of births to be added for above correction	4,848	476	466	554	490	465	407	398	415	382	316	250	229
Births, if enumerated in months of occurrence	21,441	1,505	1,540	1,923	1,794	1,805	1,685	1,774	2,007	2,031	1,877	1,690	1,810
Per cent. of births to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	477	63	59	67	57	51	41	37	35	29	20	12	6
Births, as corrected, equalized to population at close of year	21,918	1,568	1,599	1,990	1,851	1,856	1,726	1,811	2,042	2,060	1,897	1,702	1,816
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births added or subtracted to equalize them to months of uniform length	+ 11	- 28	+ 139	- 36	+ 27	- 34	+ 25	- 33	- 37	+ 30	- 34	+ 25	- 33
Births of females, corrected and equalized, equalized to months of uniform length	21,929	1,540	1,738	1,954	1,878	1,822	1,751	1,778	2,005	2,090	1,863	1,727	1,783

[a] Excluding 39 in unknown month.

EXHIBIT D.—*Births of Males and of Females in Michigan during the Year 1873, Corrected for Omissions in the Enumeration, and as thus Corrected, Equalized to Months of uniform length; also, the total Births of both Sexes as thus Corrected and Equalized. (Births of Children of unknown Sex not included.)*

	Year, 1873.[a]	Months, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of males, if enumerated in months of occurrence	23,093	1,581	1,675	2,064	1,926	1,951	1,735	1,976	2,201	2,189	1,928	1,844	2,023
Days and hundredths by which the months should be increased or diminished to equalize them to a uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births to be added or subtracted to equalize the months to a uniform length	+ 9	- 29	+ 146	- 37	+ 28	- 35	+ 25	- 36	- 40	+ 32	- 35	+ 27	- 37
Births of males, corrected and equalized to months of uniform length	23,102	1,552	1,821	2,027	1,954	1,916	1,760	1,940	2,161	2,221	1,893	1,871	1,986
Births of females, if enumerated in months of occurrence	21,441	1,505	1,540	1,923	1,794	1,805	1,685	1,774	2,007	2,031	1,877	1,690	1,810
Days and hundredths by which the months should be increased or diminished to equalize them to a uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births to be added or subtracted to equalize the months to a uniform length	+ 9	- 27	+ 134	- 35	+ 26	- 33	+ 25	- 33	- 36	+ 30	- 34	+ 25	- 33
Births of females, corrected and equalized to months of uniform length	21,450	1,478	1,674	1,888	1,820	1,772	1,710	1,741	1,971	2,061	1,843	1,715	1,777
Births of males, corrected and equalized to months of uniform length	23,102	1,552	1,821	2,027	1,954	1,916	1,760	1,940	2,161	2,221	1,893	1,871	1,986
Births of males and of females, corrected and equalized to months of uniform length	44,552	3,030	3,495	3,915	3,774	3,688	3,470	3,681	4,132	4,282	3,736	3,586	3,763

[a] Excluding births in unknown month.

EXHIBIT 3.—*Births in Michigan during the Year 1873, as Corrected for Omissions in Enumeration, Equalized to Months of uniform length.*

	Year, 1873.[a]	Months, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births, if enumerated in months of occurrence	[a]45,018	3,089	3,225	4,000	3,730	3,764	3,426	3,758	4,212	4,231	3,806	3,541	4,236
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births to be added or subtracted to equalize them to months of unform length	+ 14	- 56	+ 281	- 72	+ 55	- 68	+ 50	- 68	- 76	+ 62	- 69	+ 52	- 77
Births, corrected and equalized to months of uniform length	45,032	3,033	3,506	3,928	3,785	3,696	3,476	3,690	4,136	4,293	3,737	3,593	4,159

[a] Excluding births in unknown month.

TABLE III.—*Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Years 1873, and the Marriages solemnized in the Months of the Years 1872 and 1873 in which the Conceptions probably occurred. (Births and Marriages in unknown Month excluded.)*

Births for 1873, Equalized to Months of 30.44 Days Each, in Order by Number, Greatest First.				No. of Marriages from April, 1872, to March, 1873, equalized to Months of 30.44 days each.
Births.[a]		Conceptions.		
Year and Months.	Number.	Months.	Year.	
Year	34,538			10,733
September	3,486	December	1872	1,182
December	3,291	March[b]	1873	826
August	3,282	November	1872	1,062
October	3,108	January[b]	1873	946
November	3,061	February[b]	1873	844
Average	2,878			894
July	2,863	October[b]	1872	1,024
March	2,796	June	1872	717
April	2,751	July	1872	931
May	2,744	August[b]	1872	754
June	2,637	September[b]	1872	868
February	2,445	May	1872	736
January	2,074	April	1872	893

[a] Excluding 70 births in unknown month.
[b] Exceptions to statement that *more* than the average number of conceptions appear for months in which *more* than the average number of marriages were solemnized, and *less* than the average number of conceptions in months in which *less* than the average number of marriages were solemnized.

The relation of the birth-rate to the marriages in the months of the conceptions, and the influence of season upon the birth-rate, may be studied in Table III., Exhibit E, and Diagram No. 1. It will be seen that before the births are corrected for omissions in enumeration, as shown in Table III., the proposition that a large marriage-rate in the months of the conception of the births is followed by a large birth-rate, is not entirely in accord with the teaching of this particular table, the number of exceptional months being six out of the twelve, though the diagram shows a general similarity in the lines for marriages and births. Using the births as corrected for omissions in enumeration, as in Exhibit E, the exceptions to that proposition are in eight of the twelve months. Hence in this instance there must have been some influence operating upon the birth-rate which was greater than the influence of the marriage-rate. This subject was quite thoroughly discussed on pages 3 to 8 in the Report for 1870.

EXHIBIT E.—*The Relation between the Births in Michigan during the Year 1873, Corrected for Omissions in Enumeration, and the Marriages solemnized in the Months of the Years 1872 and 1873 in which the Conceptions probably occurred. (Births and Marriages in unknown Month excluded.)*

BIRTHS FOR 1873, CORRECTED AS IF ENUMERATED IN MONTHS OF OCCURRENCE, EQUALIZED TO MONTHS OF UNIFORM LENGTH, IN ORDER BY NUMBER, GREATEST FIRST.

Births.[a]		Conceptions.		No. of Marriages from April, 1872, to March, 1873, equalized to Months of 30.44 days each.
Year and Months.	Number.	Months.	Year.	
Year	45,032			10,733
September	4,293	December	1872	1,122
December	4,159	March	1873	826
August	4,136	November[b]	1872	1,062
March	3,928	June[b]	1872	717
April	3,785	July[b]	1872	931
October	3,737	January[b]	1873	946
Average	3,753			894
May	3,696	August[b]	1872	754
July	3,690	October[b]	1872	1,024
November	3,593	February	1873	814
February	3,506	May	1872	736
June	3,476	September[b]	1872	868
January	3,033	April[b]	1872	893

[a] Excluding 70 births in unknown month.
[b] Exceptions to statement that *more* than the average number of conceptions appear for months in which *more* than the average number of marriages were solemnized, and *less* than the average number of conceptions in months in which *less* than the average number of marriages were solemnized.

Table IV. gives opportunity for comparisons of different parts of the State with reference to the births by sex, and by time of year; for although the proportion of the births returned as having occurred in the first months of the year is not as great as in the latter part of the year, it is probable that this defect is about the same in different parts of the State, so that it need not interfere in any such comparison.

TABLE IV.—*Exhibiting, by Counties and by Sex, the Number of Children Returned as having been Born in Michigan during the Year, and in each Month of the Year ending December 31, 1873. (Still-births included.)*

STATE AND COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State [a]	Total	34,608	2112	2249	2847	2711	2794	2599	2915	3342	3436	3165	3017	3351	70
	Males	17,908	1081	1168	1469	1400	1448	1316	1533	1746	1778	1603	1571	1767	28
	Females	16,632	1029	1074	1369	1304	1340	1278	1376	1592	1649	1561	1440	1581	39
	Unknown	68	2	7	9	7	6	5	6	4	9	1	6	3	3
	Excess of Males	1,276	52	94	100	96	108	38	157	154	129	42	131	186	-11
Alcona	Total	40	5	1	2	....	7	6	3	2	4	4	1	5	....
	Males	22	4	....	2	....	2	3	2	1	3	1	1	3	....
	Females	18	1	1	....	....	5	3	1	1	1	3	....	2	....
Allegan	Total	796	43	48	64	74	68	60	68	90	71	65	55	89	1
	Males	404	21	23	32	30	33	32	38	49	40	31	29	45	1
	Females	392	22	25	32	44	35	28	30	41	31	34	26	44	....
Alpena [b]	Total	161	11	11	14	10	18	16	11	11	7	12	18	22	....
	Males	89	5	7	7	4	13	9	6	5	3	8	11	11	....
	Females	72	6	4	7	6	5	7	5	6	4	4	7	11	....
Antrim [c]	Total	54	4	1	3	4	9	5	1	2	5	7	6	7	....
	Males	33	1	1	2	4	6	3	1	....	1	4	5	5	....
	Females	21	3	....	1	....	3	2	....	2	4	3	1	2	....
Barry	Total	586	26	39	39	42	48	45	38	74	71	47	55	62	....
	Males	299	14	22	18	21	21	20	15	38	38	23	32	37	....
	Females	287	12	17	21	21	27	25	23	36	33	24	23	25	....
Bay	Total	798	57	67	52	62	61	60	63	66	83	53	74	98	2
	Males	382	23	36	24	30	26	24	31	31	43	23	41	49	1
	Females	416	34	31	28	32	35	36	32	35	40	30	33	49	1
Benzie	Total	81	7	2	7	5	7	8	12	8	10	7	2	6	....
	Males	36	3	1	3	4	1	3	5	5	5	3	....	3	....
	Females	45	4	1	4	1	6	5	7	3	5	4	2	3	....
Berrien	Total	821	43	60	78	68	68	51	56	74	91	79	73	77	3
	Males	418	25	25	30	37	34	27	26	38	40	47	41	47	1
	Females	402	18	35	48	31	34	24	30	36	51	32	32	30	1
	Unknown	1	....	....	....	....	....	....	....	....	....	....	....	....	1
Branch	Total	557	37	38	42	40	54	42	47	44	60	46	57	49	1
	Males	294	18	19	25	20	27	16	22	20	33	26	33	34	1
	Females	263	19	19	17	20	27	26	25	24	27	20	24	15	....

[a] Except of counties and townships not represented by returns of births in 1873. [b] No returns from townships of Ossineke and Wilson. [c] No returns from township of Otsego Lake.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Calhoun	Total	735	36	50	62	44	61	52	68	71	64	85	73	66	3
	Males	368	19	23	26	22	28	32	38	39	30	44	30	35	2
	Females	366	17	27	36	22	33	20	30	32	33	41	43	31	1
	Unknown	1	....	....	....	....	....	....	....	....	1	....	....	....	....
Cass	Total	473	28	25	34	42	42	37	36	47	50	45	46	40	1
	Males	257	15	18	19	21	23	24	22	18	26	24	25	22	....
	Females	215	13	7	15	21	19	13	14	29	24	20	21	18	1
	Unknown	1	....	....	....	....	....	....	....	....	....	1	....	....	....
Charlevoix [a]	Total	62	1	8	2	6	5	6	6	5	5	7	5	6	....
	Males	19	....	3	....	3	4	....	....	3	....	1	3	2	....
	Females	43	1	5	2	3	1	6	6	2	5	6	2	4	....
Cheboygan	Total	106	2	15	9	13	10	14	9	6	6	7	8	7	....
	Males	53	1	7	4	7	3	9	8	3	3	4	1	3	....
	Females	53	1	8	5	6	7	5	1	3	3	3	7	4	....
Chippewa [b]	Total	40	1	4	3	5	1	2	5	2	2	8	4	3	....
	Males	17	....	3	1	4	1	....	2	....	....	4	1	1	....
	Females	23	1	1	2	1	....	2	3	2	2	4	3	2	....
Clare	Total	21	3	....	2	2	2	2	4	1	....	2	1	2	....
	Males	12	1	....	1	2	2	1	1	1	....	2	....	1	....
	Females	9	2	....	1	....	....	1	3	....	....	....	1	1	....
Clinton	Total	651	26	40	62	57	63	50	54	62	65	64	48	60	....
	Males	331	6	20	30	32	38	22	33	32	37	30	24	27	....
	Females	320	20	20	32	25	25	28	21	30	28	34	24	33	....
Delta [c]		....	....	....	....	....	....	....	....	....	....	....	....	....	....
Eaton	Total	655	38	37	50	60	43	43	56	69	65	68	56	67	3
	Males	337	16	20	28	37	22	19	27	36	33	34	30	33	2
	Females	313	21	17	21	23	21	23	28	33	31	34	26	34	1
	Unknown	5	1	....	1	....	....	1	1	....	1	....	....	....	....
Emmet [d]	Total	41	5	4	2	2	2	4	3	3	4	5	....	7	....
	Males	23	3	4	1	1	1	2	....	2	3	4	....	2	....
	Females	18	2	....	1	1	1	2	3	1	1	1	....	5	....
Genesee	Total	736	40	45	59	62	69	57	64	74	77	58	55	76	....
	Males	372	23	20	30	31	32	27	35	47	38	22	31	36	....
	Females	364	17	25	29	31	37	30	29	27	39	36	24	40	....
Grand Traverse	Total	123	3	8	9	12	10	11	13	13	9	14	13	7	1
	Males	67	2	6	7	7	3	3	7	11	4	6	7	3	1
	Females	56	1	2	2	5	7	8	6	2	5	8	6	4	....

[a] No returns from townships of Boyne Valley and Evangeline. [b] No returns from township of Sugar Island. [c] No returns of births to this Department. [d] No returns from township of La Croix.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Gratiot	Total	430	26	36	32	37	23	34	41	34	55	38	31	43	....
	Males	223	15	21	14	23	15	17	21	13	30	22	14	18	....
	Females	207	11	15	18	14	8	17	20	21	25	16	17	25	....
Hillsdale	Total	591	25	34	40	51	52	44	65	63	57	53	56	51	....
	Males	308	14	17	24	20	23	22	38	33	31	30	33	23	....
	Females	282	11	17	16	31	29	22	27	30	26	23	22	28	....
	Unknown	1	....	....	....	....	....	....	....	....	....	....	1	....	....
Houghton	Total	612	36	44	43	64	54	44	44	59	67	50	48	59	....
	Males	329	21	20	20	30	33	28	19	33	39	22	33	31	....
	Females	283	15	24	23	34	21	16	25	26	28	28	15	28	....
Huron	Total	437	25	22	36	50	42	38	36	39	37	32	35	45	....
	Males	221	12	11	16	22	17	20	25	19	19	16	24	20	....
	Females	216	13	11	20	28	25	18	11	20	18	16	11	25	....
Ingham	Total	654	33	32	50	44	51	51	62	77	72	61	57	64	....
	Males	368	17	19	26	24	35	27	35	47	38	38	29	33	....
	Females	286	16	13	24	20	16	24	27	30	34	23	28	31	....
Ionia	Total	660	37	45	53	52	42	53	60	64	80	64	50	59	1
	Males	350	12	22	30	28	24	25	34	38	48	34	24	30	1
	Females	310	25	23	23	24	18	28	26	26	32	30	26	29	....
Iosco [a]	Total	134	6	5	17	9	7	15	17	14	10	10	11	13	....
	Males	68	3	3	10	6	3	8	5	7	4	5	7	7	....
	Females	65	3	2	7	3	4	6	12	7	6	5	4	6	....
	Unknown	1	....	....	....	....	....	1	....	....	....	....	....	....	....
Isabella [b]	Total	161	5	11	11	17	20	21	16	17	11	10	12	10	....
	Males	85	4	6	7	10	12	10	8	8	2	6	6	6	....
	Females	76	1	5	4	7	8	11	8	9	9	4	6	4	....
Jackson	Total	891	75	50	101	79	70	68	51	83	77	77	77	83	....
	Males	452	42	23	55	46	36	35	24	40	35	40	35	41	....
	Females	436	33	25	46	33	33	33	27	43	42	37	42	42	....
	Unknown	3	....	2	....	....	1	....	....	....	....	....	....	....	....
Kalamazoo	Total	732	20	47	45	44	70	65	58	80	80	74	64	76	....
	Males	337	13	23	19	21	35	41	31	39	40	37	33	35	....
	Females	364	16	24	26	23	35	24	27	41	39	37	31	41	....
	Unknown	1	....	....	....	....	....	....	....	....	1	....	....	....	....
Kalkaska	Total	42	3	1	5	2	5	1	6	3	2	5	6	3	....
	Males	19	2	....	4	1	3	....	4	1	1	....	2	1	
	Females	23	1	1	1	1	2	1	2	2	1	5	4		

[a] No returns from townships of Edwards and Ogemaw.
[b] No returns from township of Sherman.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Kent	Total	1,643	99	88	169	108	114	117	137	150	181	172	131	177	....
	Males	872	52	51	85	66	58	62	72	77	103	87	66	93	....
	Females	766	47	35	83	42	56	54	65	72	78	85	65	84	....
	Unknown	5	....	2	1	....	....	1	....	1	....	....	....	....	....
Keweenaw[a]	Total	183	15	13	19	11	16	9	10	17	19	18	19	17	....
	Males	92	7	5	13	7	7	3	5	8	8	11	10	8	....
	Females	91	8	8	6	4	9	6	5	9	11	7	9	9	....
Lake	Total	60	3	5	5	7	5	4	3	11	2	8	4	3	....
	Males	37	2	3	5	3	3	2	3	5	2	4	3	2	....
	Females	23	1	2	....	4	2	2	....	6	....	4	1	1	....
Lapeer	Total	655	31	47	53	41	68	56	63	70	50	69	48	59	....
	Males	366	16	26	33	20	41	35	41	36	27	36	24	31	....
	Females	289	15	21	20	21	27	21	22	34	23	33	24	28	....
Leelanaw	Total	158	13	8	17	11	14	11	15	13	15	16	11	13	1
	Males	75	9	3	11	5	9	1	5	8	5	8	2	9	....
	Females	83	4	5	6	6	5	10	10	5	10	8	9	4	1
Lenawee	Total	1,005	59	69	91	81	83	80	83	99	91	73	107	87	2
	Males	528	25	36	52	35	41	43	48	57	51	33	58	48	1
	Females	476	34	33	39	46	41	37	35	42	40	40	49	39	1
	Unknown	1	....	....	....	....	1	....	....	....	....	....	....	....	....
Livingston	Total	476	31	36	42	28	37	41	30	63	51	41	40	36	....
	Males	232	18	20	19	12	15	16	14	35	27	21	15	20	....
	Females	244	13	16	23	16	22	25	16	28	24	20	25	16	....
Mackinac	Total	49	3	3	3	3	11	3	2	4	2	6	7	2	....
	Males	22	2	1	....	2	3	1	1	2	2	3	3	2	....
	Females	27	1	2	3	1	8	2	1	2	....	3	4	....	....
Macomb	Total	794	41	61	66	68	56	47	80	78	99	77	66	60	4
	Males	392	22	26	38	31	27	25	49	31	44	35	29	33	2
	Females	400	19	35	28	37	29	21	31	47	46	42	36	27	2
	Unknown	2	....	....	....	....	....	1	....	....	....	....	1	....	....
Manistee[b]	Total	330	20	32	31	34	30	27	29	16	26	33	21	31	....
	Males	181	9	17	21	17	15	13	14	11	17	20	11	16	....
	Females	148	11	15	10	17	14	14	15	5	9	13	10	15	....
	Unknown	1	....	....	....	....	1	....	....	....	....	....	....	....	....
Manitou[c]	Total	24	....	1	2	2	....	2	....	7	4	1	3	2	....
	Males	11	....	1	2	....	....	2	....	3	1	....	1	1	....
	Females	13	....	....	....	2	....	....	....	4	3	1	2	1	....

[a] No returns from township of Isle Royal. [b] No returns from township of Filer. [c] No returns from township of South Manitou.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Marquette[a]	Total	673	43	40	55	51	49	59	60	69	63	59	69	56	....
	Males	364	26	20	32	25	26	36	34	36	37	29	34	29	....
	Females	309	17	20	23	26	23	23	26	33	26	30	35	27	....
Mason[b]	Total	137	12	11	15	13	5	10	8	12	13	15	16	7	....
	Males	68	7	7	5	6	1	3	3	7	6	9	7	7	....
	Females	69	5	4	10	7	4	7	5	5	7	6	9	....	....
Mecosta	Total	245	7	12	19	14	21	22	29	25	28	23	23	22	....
	Males	128	3	9	9	5	10	14	14	19	13	8	11	13	....
	Females	117	4	3	10	9	11	8	15	6	15	15	12	9	....
Menominee	Total	130	6	10	4	11	15	17	14	4	7	15	7	20	....
	Males	62	2	6	1	5	7	8	7	2	4	10	1	9	....
	Females	68	4	4	3	6	8	9	7	2	3	5	6	11	....
Midland[c]	Total	97	3	5	6	7	7	16	7	10	10	8	9	9	....
	Males	39	3	3	4	3	3	3	3	4	4	1	4	4	....
	Females	58	....	2	2	4	4	13	4	6	6	7	5	5	....
Missaukee	Total	19	1	....	2	....	3	1	3	2	3	2	1	1	....
	Males	10	1	....	..	....	3	....	1	1	2	2	....	....	....
	Females	8	....	....	2	....	....	1	2	1	1	....	1	....	....
	Unknown	1	....	....	..	....	....	....	..	....	....	....	....	1	....
Monroe	Total	875	54	57	75	66	76	56	77	70	76	83	95	90	....
	Males	464	31	32	49	32	32	28	44	46	38	43	45	44	....
	Females	406	23	25	26	34	44	28	33	23	37	40	48	45	....
	Unknown	5	....	....	..	....	....	....	..	1	1	....	2	1	....
Montcalm	Total	513	22	30	37	37	44	35	67	61	50	51	44	33	2
	Males	246	6	14	15	16	24	14	32	37	21	23	30	14	....
	Females	267	16	16	22	21	20	21	35	24	29	28	14	19	2
Muskegon	Total	538	44	32	43	37	52	29	45	52	55	52	44	51	2
	Males	271	19	14	22	16	30	15	26	28	22	27	19	31	2
	Females	265	25	18	21	21	21	14	18	24	33	25	25	20	....
	Unknown	2	....	....	..	....	1	....	1	....	....	....	....	....	....
Newaygo	Total	229	16	18	36	18	19	18	14	27	14	23	12	13	1
	Males	124	10	10	18	8	12	8	9	16	11	12	3	7	....
	Females	105	6	8	18	10	7	10	5	11	3	11	9	6	1
Oakland	Total	718	51	50	43	61	60	46	71	63	64	68	71	67	3
	Males	360	26	24	20	29	30	24	33	31	37	32	40	34	....
	Females	358	25	26	23	32	30	22	38	32	27	36	31	33	3

[a] No returns from township of Forsyth. [b] No returns from township of Victory. [c] No returns from townships of Ingersoll, Lincoln, and Mt. Hayley.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Oceana	Total	262	13	16	20	18	15	28	16	26	18	29	21	39	3
	Males	128	9	10	13	4	7	13	8	13	6	10	15	19	1
	Females	133	4	6	6	14	8	15	8	13	12	19	6	20	2
	Unknown	1	....	....	1	....	....	....	....	....	....	....	....	....	....
Ontonagon	Total	74	4	6	7	6	3	5	6	3	4	7	11	12	....
	Males	32	2	2	2	3	1	2	1	1	....	2	9	7	....
	Females	42	2	4	5	3	2	3	5	2	4	5	2	5	....
Osceola	Total	204	7	13	9	19	15	17	26	24	18	6	26	23	1
	Males	118	4	6	5	10	5	9	16	17	11	6	13	15	1
	Females	85	3	7	4	9	10	8	10	7	7	....	13	7	....
	Unknown	1	....	....	....	....	....	....	....	....	....	....	....	1	....
Ottawa	Total	968	80	86	75	64	71	60	65	109	108	82	78	89	1
	Males	507	42	39	38	32	40	34	32	56	57	45	41	51	....
	Females	458	37	47	37	32	31	26	33	52	50	37	37	38	1
	Unknown	3	1	....	....	....	....	....	....	1	1	....	....	....	....
Presque Isle [a]	Total	7	....	....	1	....	2	1	....	1	....	1	....	1	....
	Males	3	....	....	1	....	2	....	....	....	....	....	....	....	....
	Females	4	....	....	....	....	....	1	....	1	....	1	....	1	....
Saginaw	Total	1,482	95	95	126	123	110	88	128	137	156	147	139	133	5
	Males	757	46	53	65	70	64	39	59	67	80	72	74	68	....
	Females	724	49	41	61	53	46	49	69	70	76	75	65	65	5
	Unknown	1	....	1	....	....	....	....	....	....	....	....	....	....	....
Sanilac	Total	534	39	41	38	46	45	50	44	40	52	40	40	36	23
	Males	280	22	24	16	24	22	21	28	23	28	20	21	22	9
	Females	254	17	17	22	22	23	29	16	17	24	20	19	14	14
Schoolcraft	Total	21	2	....	5	....	4	1	1	1	2	1	1	3	....
	Males	9	....	....	1	....	2	1	....	....	2	1	....	2	....
	Females	12	2	....	4	....	2	....	1	1	....	....	1	1	....
Shiawassee	Total	517	35	32	37	42	32	35	42	57	64	47	32	62	....
	Males	273	18	18	18	21	15	16	22	34	36	25	19	31	....
	Females	242	17	14	19	21	17	19	20	23	26	22	13	31	....
	Unknown	2	....	....	....	....	....	....	....	....	2	....	....	....	....
St. Clair	Total	1,130	79	85	99	89	93	87	99	102	99	86	93	118	1
	Males	596	38	43	45	62	51	43	56	50	55	45	46	62	....
	Females	532	41	41	54	27	42	44	42	52	44	41	47	56	1
	Unknown	2	....	1	....	....	....	....	1	....	....	....	....	....	....

[a] No returns from township of Presque Isle.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
St. Joseph	Total	492	40	30	28	41	41	40	37	56	42	43	56	38	....
	Males	240	17	16	11	21	22	25	14	30	23	19	24	18	....
	Females	252	23	14	17	20	19	15	23	26	19	24	32	20	....
Tuscola	Total	510	31	35	40	43	54	39	41	51	53	49	28	46	....
	Males	260	12	16	21	29	25	21	21	26	24	23	18	24	....
	Females	248	19	18	19	14	29	18	19	25	29	26	10	22	....
	Unknown	2	....	1	....	....	....	....	1	....	....	....	....	....	....
Van Buren	Total	630	27	40	66	55	54	44	40	64	66	60	52	62	....
	Males	314	14	17	39	20	32	18	20	31	29	33	32	29	....
	Females	316	13	23	27	35	22	26	20	33	37	27	20	33	....
Washtenaw	Total	879	52	64	77	65	69	66	62	80	90	83	80	91	....
	Males	453	29	34	37	41	31	36	30	33	48	38	43	53	....
	Females	425	23	30	40	24	38	30	32	47	42	45	36	38	....
	Unknown	1	....	....	....	....	....	....	....	....	....	....	1	....	....
Wayne	Total	4,368	315	244	352	324	307	320	376	400	441	407	402	475	5
	Males	2,327	176	136	186	168	171	168	198	201	228	217	210	266	2
	Females	2,017	139	108	160	149	134	151	176	198	211	190	191	209	1
	Unknown	24	....	....	6	7	2	1	2	1	2	....	1	....	2
Wexford	Total	98	3	4	6	8	10	7	12	11	12	7	13	5	....
	Males	44	1	3	2	4	5	5	7	7	2	2	5	1	....
	Females	54	2	1	4	4	5	2	5	4	10	5	8	4	....

Table V. will bear much study, and is very instructive, although its value would be greatly enhanced if the population could be shown for the same year as that for which the births were returned. Using the number of inhabitants in 1870 and the births in 1873, it is seen that the birth-rate is greatest among the Indians, and smallest among the Mulatto inhabitants, while among the White inhabitants the birth-rate is about the same as for the entire State, which, however, it may control. The relative birth-rates among the different races is the same in 1873 as in 1872; but in 1870 and 1871 the largest birth-rate appeared to be among the Black, and the smallest among the Mulatto inhabitants. For each of the years 1870–1873, the birth-rate among the African race, as a whole, ("Black and Mulatto") in this State is very much less than that for the total inhabitants of the State.

The statements of the proportion of the sexes of children by Race, show an excess of males for each race except the Indians, for each of the years 1870–1873. There is an excess of females among the Indians in every year, that in 1873 being exceptionally large.

The foregoing is in accordance with the apparent rule to which the compiler has called attention, in preceding Reports, namely, that *an increased birth-rate is coincident with an increased proportion of female children.* The rule having been questioned, the subject was quite thoroughly studied in the Report for 1871, pages 84–112, where the compiler tabulated nearly five millions of births in this and other countries, and found the rule seemed generally to apply, (with numerous exceptions, however,) so far as could then be ascertained. In Table V, it will be seen that the per cent. of children to women aged 18 to 45 years is greatest among the Indians, next greatest among the white inhabitants, and least in the African race; and that the proportion of female children is also greatest among the Indians, next greatest among the white inhabitants, and least in the African race, so that, in this instance, not only does the rule apply, but there is a quantitative relation shown.

In order to positively decide such questions as this, it is very desirable that persons making the enumeration of births and deaths ascertain and return the Color or Race in conformity to the suggestions in the blanks and circulars of the State Department, as White, Black, Mulatto, Indian, etc., and *not* as "Dark," "Light," etc., which terms have no definite meaning. The proportion of children born in 1873, whose color was not stated is larger than for either of the years 1872 or 1871, but smaller than for 1870. This imperfection in the returns is to be regretted, because it detracts so much from the value of the statistics. It may be that the Supervisors, Assessors, and others having to do with the returns, do not consider that in compiling their returns nothing can be taken for granted; but if the color is not stated in any case it must be compiled as unknown, though it may have been perfectly plain to the Supervisor that there were none but white persons in his township.

TABLE V.—*Exhibiting, by Color and by Sex, the Population of Michigan June 1, 1870, the Number of Children born in the State during the Year 1873, the Per Cent. of Children born in 1873 to Population in 1870, the Number of Women aged 18 to 45, the Per Cent. of Births to Women at such Child-bearing ages, the Per Cent. of Children of each Sex to the Total Number of both Sexes, and the Number of Inhabitants to each Child born of the same Color. (Still-births included.)*

COLOR OR RACE.	SEX.	Population June 1, 1870, Represented by Births in 1873.	Children Born in 1873.	Per Cent. of Children to Inhabitants, by Sex.	Women, June 1, 1870, Aged 18 and Under 45 Years.[a]	Per Cent. of Children to Women Aged 18 to 45 Yrs.	Per Cent. of Each Sex to Children of both Sexes.	Number of Inhabitants to 1 Child born of the same Color.
All Colors	Total	1,179,082	34,608	2.935	.....	15.008	.....	34.07
	Males	615,228	17,908	2.911	.....	.....	51.85	.....
	Females	563,854	16,632	2.950	230,590	.....	48.15	.....
	Unknown	.....	68	.....	.....	.....	.....	.....
White	Total	1,163,280	33,848	2.910	.....	14.933	.....	34.37
	Males	607,026	17,539	2.889	.....	.....	51.87	.....
	Females	556,254	16,274	2.926	227,331	.....	48.13	.....
	Unknown	.....	35	.....	.....	.....	.....	.....
Black	Total	5,512	143	2.590	.....	.....	.....	38.55
	Males	3,043	79	2.596	.....	.....	55.24	.....
	Females	2,469	64	2.590	.....	.....	44.76	.....
Mulatto	Total	6,223	103	1.655	.....	.....	.....	60.42
	Males	3,140	58	1.847	.....	.....	56.31	.....
	Females	3,083	45	1.460	.....	.....	43.69	.....
Indian	Total	4,067	161	3.959	.....	16.213	.....	25.26
	Males	2,019	73	3.616	.....	.....	45.63	.....
	Females	2,048	87	4.248	933	.....	54.37	.....
	Unknown	.....	1	.....	.....	.....	.....	.....
Unknown Color	Total	.....	353	.....	.....	.....	.....	.....
	Males	.....	159	.....	.....	.....	49.53	.....
	Females	.....	162	.....	.....	.....	50.47	.....
	Unknown	.....	32	.....	.....	.....	.....	.....
Black and Mulatto..[b]	Total	11,735	246	2.096	.....	10.576	.....	47.70
	Males	6,183	137	2.216	.....	.....	55.69	.....
	Females	5,552	109	1.963	2.326	.....	44.31	.....

[a] Number ascertained from U. S. Census of 1870, Vital Statistics Volume, pp. 660-669.
[b] Includes all of African descent.

TABLE VI.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Population June 1, 1870, the Per Cent. of Births in 1873 to Population in 1870, the Number of Males to 100 Females born during the Year 1873, and by Sex and Color the Number of Children born during the Year ending December 31, 1873. (Still-births included.)*

STATE AND COUNTIES.	Number of Males to 100 Females.	Sex.	Per Cent. of Births of Each Sex to Total of both Sexes.	Population June 1, 1870, represented by Births in 1873.	PerCent. of Births of Each Sex to Population of same Sex.	Color.					
						Total of all Colors.	White.	Black.	Mulatto.	Indian.	Unkno'n.
State [a]	108	Total	----------	1,179,062	2.94	34,608	33,848	143	103	161	353
		Males	51.85	615,228	2.91	17,966	17,539	[b] 79	58	[c] 73	159
		Females	48.15	563,854	2.93	16,632	16,274	[d] 64	45	[e] 87	162
		Unknown	----------	--------	--------	68	35	------	------	1	32
Alcona [f]	122	Total	----------	766	5.22	40	40	------	------	------	------
		Males	55.00	441	4.99	22	22	------	------	------	------
		Females	45.00	325	5.54	18	18	------	------	------	------
Allegan	103	Total	----------	32,105	2.48	796	791	1	4	------	------
		Males	50.75	17,000	2.38	404	401	------	3	------	------
		Females	49.25	15,105	2.60	392	390	[g] 1	1	------	------
Alpena [h]	124	Total	----------	2,612	6.16	161	161	------	------	------	------
		Males	55.28	1,628	5.47	89	89	------	------	------	------
		Females	44.72	984	7.32	72	72	------	------	------	------
Antrim [h]	157	Total	----------	1,985	2.72	54	52	------	------	2	------
		Males	61.11	1,118	2.95	33	32	------	------	1	------
		Females	38.89	867	2.42	21	20	------	------	1	------
Barry	104	Total	----------	22,200	2.64	586	585	------	1	------	------
		Males	51.02	11,646	2.57	299	299	------	------	------	------
		Females	48.98	10,554	2.72	287	286	------	1	------	------
Bay	92	Total	----------	15,900	5.02	798	790	------	1	7	------
		Males	47.87	8,914	4.29	382	378	------	------	4	------
		Females	52.13	6,986	5.95	416	412	------	1	3	------
Benzie	80	Total	----------	2,184	3.71	81	80	1	------	------	------
		Males	44.44	1,168	3.08	36	36	------	------	------	------
		Females	55.56	1,016	4.43	45	44	1	------	------	------
Berrien	104	Total	----------	35,104	2.34	821	795	8	2	------	16
		Males	50.98	18,063	2.31	418	405	4	2	------	7
		Females	49.02	17,041	2.36	402	389	4	------	------	9
		Unknown	----------	--------	--------	1	1	------	------	------	------

[a] For counties and townships not represented by returns of births, see Table XXI. [b] 9 "African," 7 "Colored," and 1 Black and Indian. [c] 5 White and Indian, 2 Half-Indian, and 1 "Half-breed." [d] 13 "Colored," 10 "African," 1 "Negro." [e] 4 White and Indian, 4 "Half-breeds," 2 Half-Indian, and 1 ⅝ Indian. [f] Includes population of Oscoda county. [g] "Negro." [h] For townships not represented by returns of births, see Table XXI.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Population June 1, 1870, represented by Births in 1873.	PerCent. of Births of Each Sex to Population of same Sex.	COLOR.					
						Total of all Colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Branch	112	Total	.....	26,227	2.12	557	555	1	1	.....	.....
		Males	52.78	13,248	2.22	294	293	.....	1	.....	.....
		Females	47.22	12,979	2.03	263	262	1	.....	.....	.....
Calhoun	101	Total	.....	36,571	2.01	735	717	6	7	.....	5
		Males	50.14	18,550	1.98	368	359	5	3	.....	1
		Females	49.86	18,021	2.03	366	357	1	4	.....	4
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Cass	120	Total	.....	21,096	2.24	473	414	24	34	.....	1
		Males	54.45	10,938	2.35	257	225	13	18	.....	1
		Females	45.55	10,158	2.12	215	188	11	16	.....	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Charlevoix[a]	44	Total	.....	1,634	3.79	62	52	.....	.....	10	.....
		Males	30.65	888	2.14	19	15	.....	.....	4	.....
		Females	69.35	746	5.76	43	37	.....	.....	6	.....
Cheboygan	100	Total	.....	2,197	4.82	106	100	2	.....	[b]4	.....
		Males	50.00	1,235	4.29	53	50	1	.....	2	.....
		Females	50.00	962	5.56	53	50	1	.....	2	.....
Chippewa[a]	74	Total	.....	1,452	2.75	40	33	.....	.....	[c]7	.....
		Males	42.50	797	2.13	17	13	.....	.....	4	.....
		Females	57.50	655	3.51	23	20	.....	.....	3	.....
Clare	133	Total	.....	366	5.74	21	21	.....	.....	.....	.....
		Males	57.14	285	4.21	12	12	.....	.....	.....	.....
		Females	42.86	81	11.11	9	9	.....	.....	.....	.....
Clinton	103	Total	.....	22,851	2.85	651	649	.....	2	.....	.....
		Males	50.84	11,813	2.89	331	330	.....	1	.....	.....
		Females	49.16	11,038	2.89	320	319	.....	1	.....	.....
Delta[d]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eaton	108	Total	.....	25,163	2.60	655	652	1	.....	.....	2
		Males	51.85	12,949	2.60	337	336	[e]1	.....	.....	.....
		Females	48.15	12,214	2.56	313	313	[e]	.....	.....	.....
		Unknown	.....	.....	.....	5	3	.....	.....	.....	.....
Emmet[a]	128	Total	.....	548	7.48	41	1	.....	.....	.....	
		Males	56.10	284	8.10	23	1	.....	[f]		
		Females	43.90	264	6.82	18	.....	.....			

[a] For townships not represented by returns of births, see Table XI.
[b] and Indian. [c] 4 males and 2 females White and Indian. [d] No return.
[e] "African." [f] 2 Half Indian. [g] 2 Half Indian, 1 ½ Indian, 1 White

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	Sex.	Per Cent. of Births of Each Sex to Total of both Sexes.	Population June 1, 1870, represented by Births in 1873.	Per Cent. of Births of Each Sex to Population of same Sex.	Color.					
						Total of all Colors.	White.	Black.	Mulatto.	Indian.	Unkno'n.
		Total	.....	33,895	2.17	736	734	1	1	.....	.....
Genesee	102	Males	50.54	17,449	2.13	372	371	1	.....	.....	.....
		Females	49.46	16,446	2.21	364	363	.....	1	.....	.....
		Total	.....	4,443	2.77	123	100	.....	.....	.....	23
Gr. Traverse	120	Males	54.47	2,389	2.80	67	57	.....	.....	.....	10
		Females	45.53	2,054	2.73	56	43	.....	.....	.....	13
		Total	.....	11,808	3.64	430	430	.....	.....	.....	.....
Gratiot	108	Males	51.86	6,189	3.60	223	223	.....	.....	.....	.....
		Females	48.14	5,619	3.68	207	207	.....	.....	.....	.....
		Total	.....	31,688	1.87	591	590	.....	.....	.....	1
Hillsdale	109	Males	52.20	16,104	1.91	308	308	.....	.....	.....	.....
		Females	47.80	15,584	1.81	282	282	.....	.....	.....	.....
		Unknown	.....	.....	.....	1	.....	.....	.....	.....	1
		Total	.....	13,882	4.41	612	602	.....	.....	10	.....
Houghton	116	Males	53.76	7,745	4.25	329	327	.....	.....	[a] 2	.....
		Females	46.24	6,137	4.61	283	275	.....	.....	[b] 8	.....
		Total	.....	9,048	4.83	437	437	.....	.....	.....	.....
Huron	102	Males	50.57	5,036	4.39	221	221	.....	.....	.....	.....
		Females	49.43	4,012	5.38	216	216	.....	.....	.....	.....
		Total	.....	25,268	2.59	654	649	1	2	.....	2
Ingham	129	Males	56.27	13,096	2.81	368	365	.....	2	.....	1
		Females	43.73	12,172	2.35	286	284	1	.....	.....	1
		Total	.....	27,675	2.38	660	658	.....	2	.....	.....
Ionia	113	Males	53.03	14,452	2.42	350	349	.....	1	.....	.....
		Females	46.97	13,223	2.34	310	309	.....	1	.....	.....
		Total	.....	3,175	4.22	134	134	.....	.....	.....	.....
Iosco [cd]	105	Males	51.13	1,913	3.55	68	68	.....	.....	.....	.....
		Females	48.87	1,262	5.15	65	65	.....	.....	.....	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
		Total	.....	3,979	4.05	161	139	.....	1	21	.....
Isabella [c]	112	Males	52.80	2,128	3.99	85	76	.....	.....	9	.....
		Females	47.20	1,851	4.11	76	63	.....	1	12	.....
		Total	.....	36,040	2.47	891	883	3	1	.....	4
Jackson	104	Males	50.90	19,056	2.37	452	449	1	1	.....	1
		Females	49.10	16,984	2.57	436	434	2	.....	.....	.....
		Unknown	.....	.....	.....	3	.....	.....	.....	.....	3

[a] 1 "Half-breed." [b] 4 "Half-breeds." [c] For townships not represented by returns of births, see Table XXI. [d] Includes population of Ogemaw county.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Population June 1, 1870, represented by Births in 1873.	PerCent. of Births of Each Sex to Population of same Sex.	COLOR.					
						Total of all Colors.	White.	Black.	Mulatto.	Indian.	Unkno'n.
Kalamazoo..	101	Total.....	.....	32,065	2.28	732	721	6	4	.....	1
		Males	50.21	16,522	2.22	367	362	3	1	.....	1
		Females..	49.79	15,543	2.34	364	358	3	3	.....	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Kalkaska....	83	Total.....	.....	424	9.91	42	42	.....	.....	.....	.....
		Males	45.24	244	7.79	19	19	.....	.....	.....	.....
		Females..	54.76	180	12.78	23	23	.....	.....	.....	.....
Kent.....	114	Total.....	.....	50,410	3.26	1,643	1,604	7	1	.....	31
		Males	53.24	26,166	3.33	872	855	2	.....	.....	15
		Females..	46.76	24,244	3.16	766	745	5	1	.....	15
		Unknown	.....	.....	.....	5	4	.....	.....	.....	1
Keweenaw.a	101	Total.....	.....	4,206	4.35	183	183	.....	.....	.....	.....
		Males	50.27	2,327	3.95	92	92	.....	.....	.....	.....
		Females..	49.73	1,879	4.84	91	91	.....	.....	.....	.....
Lake.....	161	Total.....	.....	548	10.95	60	60	.....	.....	.....	.....
		Males	61.67	305	12.13	37	37	.....	.....	.....	.....
		Females..	38.33	243	9.47	23	23	.....	.....	.....	.....
Lapeer.....	127	Total.....	.....	21,342	3.07	655	652	1	2	.....	.....
		Males	55.88	11,051	3.31	366	364	.....	2	.....	.....
		Females..	44.12	10,291	2.81	289	288	1	.....	.....	.....
Leelanaw...	90	Total.....	.....	4,577	3.45	158	138	.....	.....	20	.....
		Males	47.47	2,401	3.12	75	66	.....	.....	9	.....
		Females..	52.53	2,176	3.81	83	72	.....	.....	11	.....
Lenawee....	111	Total.....	.....	45,601	2.20	1,005	1,000	2	3	.....	.....
		Males	52.59	22,916	2.30	528	525	1	2	.....	.....
		Females..	47.41	22,685	2.10	476	474	1	1	.....	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Livingston..	95	Total.....	.....	19,335	2.46	476	474	2	.....	.....	.....
		Males.....	48.74	10,072	2.30	232	231	b 1	.....	.....	.....
		Females..	51.26	9,263	2.63	244	243	b 1	.....	.....	
Mackinac....	81	Total.....	.....	1,715	2.86	49	47	1	.....		
		Males	44.90	905	2.43	22	20	b 1			
		Females..	55.10	810	3.33	27	27				

a For townships not represented by returns of births, see Table XX

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Population June 1, 1870, represented by Births in 1873.	PerCent. of Births of Each Sex to Population of same Sex.	COLOR.					
						Total of all Colors.	White.	Black.	Mulatto.	Indian.	Unkno'n.
Macomb.....	98	Total.....	.....	27,619	2.87	794	793	1	.....	.....	.....
		Males.....	49.49	14,096	2.78	392	391	1	.....	.....	.....
		Females..	50.50	13,523	2.96	400	400	.....	.....	.....	.....
		Unknown	.....	.....	.....	2	2	.....	.....	.....	.....
Manistee...[a]	122	Total.....	.....	5,698	5.79	330	330	.....	.....	.....	.....
		Males.....	55.02	3,247	5.57	181	181	.....	.....	.....	.....
		Females..	44.98	2,451	6.04	148	148	.....	.....	.....	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Manitou....[a]	85	Total.....	.....	815	2.94	24	24	.....	.....	.....	.....
		Males.....	45.83	450	2.44	11	11	.....	.....	.....	.....
		Females..	54.17	365	3.56	13	13	.....	.....	.....	.....
Marquette..[a]	118	Total.....	.....	14,278	4.71	673	673	.....	.....	.....	.....
		Males.....	54.09	8,485	4.29	364	364	.....	.....	.....	.....
		Females..	45.91	5,793	5.33	309	309	.....	.....	.....	.....
Mason.....[a]	99	Total.....	.....	2,952	4.64	137	112	.....	.....	6	19
		Males.....	49.64	1,635	4.16	68	51	.....	.....	4	13
		Females..	50.36	1,317	5.24	69	61	.....	.....	2	6
Mecosta.....	109	Total.....	.....	5,645	4.34	245	243	1	1	.....	.....
		Males.....	52.24	3,061	4.18	128	127	.....	1	.....	.....
		Females..	47.76	2,584	4.53	117	116	1	.....	.....	.....
Menominee..	91	Total.....	.....	1,895	6.86	130	124	1	.....	5	.....
		Males.....	47.69	1,266	4.90	62	58	[b] 1	.....	3	.....
		Females..	52.31	629	10.81	68	66	.....	.....	2	.....
Midland....[a]	67	Total.....	.....	2,559	3.79	97	97	.....	.....	.....	.....
		Males.....	40.21	1,409	2.77	39	39	.....	.....	.....	.....
		Females..	59.79	1,150	5.04	58	58	.....	.....	.....	.....
Missaukee...	125	Total.....	.....	130	14.62	19	18	.....	.....	.....	1
		Males.....	55.56	76	13.16	10	10	.....	.....	.....	.....
		Females..	44.44	54	14.82	8	8	.....	.....	.....	.....
		Unknown	.....	.....	.....	1	.....	.....	.....	.....	1
Monroe.....	114	Total.....	.....	27,475	3.18	875	869	.....	.....	.....	6
		Males.....	53.33	13,950	3.33	464	461	.....	.....	.....	3
		Females..	46.67	13,525	3.00	406	406	.....	.....	.....	.....
		Unknown	.....	.....	.....	5	2	.....	.....	.....	3

[a] For townships not represented by returns of births, see Table XXI. [b] Black and Indian.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Population June 1, 1870, represented by Births in 1873.	PerCent. of Births of Each Sex to Population of same Sex.	COLOR.					
						Total of all Colors.	White.	Black.	Mulatto.	Indian.	Unkno'n.
Montcalm...	92	Total.....	.....	13,641	3.76	513	502	1	1	.....	9
		Males.....	47.95	7,284	3.38	246	246	.....	.....	.....	.....
		Females..	52.05	6,357	4.20	267	256	1	1	.....	9
Muskegon...	102	Total.....	.....	14,892	3.61	538	370	.....	1	.....	167
		Males.....	50.56	8,402	3.23	271	187	.....	.....	.....	84
		Females..	49.44	6,490	4.06	265	183	.....	1	.....	81
		Unknown	.....	.....	.....	2	.....	.....	.....	.....	2
Newaygo....	118	Total.....	.....	7,292	3.14	229	211	.....	.....	4	14
		Males.....	54.15	3,910	3.17	124	113	.....	.....	3	8
		Females..	45.85	3,382	3.10	105	98	.....	.....	1	6
Oakland.....	101	Total.....	.....	40,906	1.76	718	716	1	.....	.....	1
		Males.....	50.14	21,135	1.70	360	359	[a] 1	.....	.....	.....
		Females..	49.86	19,771	1.81	358	357	.....	.....	.....	1
Oceana.....	96	Total.....	.....	7,222	3.63	262	249	.....	.....	13	.....
		Males.....	49.04	3,948	3.25	128	126	.....	.....	2	.....
		Females..	50.96	3,274	4.06	133	122	.....	.....	11	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Ontonagon..	76	Total.....	.....	2,846	2.60	74	74	.....	.....	.....	.....
		Males.....	43.24	1,430	2.24	32	32	.....	.....	.....	.....
		Females..	56.76	1,416	2.97	42	42	.....	.....	.....	.....
Osceola.....	139	Total.....	.....	2,104	9.70	204	202	.....	.....	.....	2
		Males.....	58.13	1,167	10.11	118	117	.....	.....	.....	1
		Females..	41.87	937	9.07	85	85	.....	.....	.....	.....
		Unknown	.....	.....	.....	1	.....	.....	.....	.....	1
Ottawa.....	111	Total.....	.....	26,650	3.63	968	958	3	1	3	3
		Males.....	52.54	14,050	3.66	507	501	2	1	1	2
		Females..	47.46	12,600	3.63	458	454	1	.....	2	1
		Unknown	.....	.....	.....	3	3	.....	.....	.....	.....
Presq. Isle.[b]	75	Total.....	.....	355	1.97	7	7	.....	.....	.....	.....
		Males.....	42.86	229	1.31	3	3	.....	.....	.....	.....
		Females..	57.14	126	3.17	4	4	.....	.....	.....	.....
Saginaw.....	105	Total.....	.....	39,096	3.79	1,492	1,470	8	.....	4	.....
		Males.....	51.11	21,084	3.89	757	736	[a] 1	.....	.....	.....
		Females..	48.89	18,084	4.01	724					
		Unknown	.....	.....	.....						

[a] "African." [b] For townships not represented

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	Sex.	Per Cent. of Births of Each Sex to Total of both Sexes.	Population June 1, 1870, represented by Births in 1873.	PerCent. of Births of Each Sex to Population of same Sex.	COLOR.					
						Total of all Colors.	White.	Black.	Mulatto.	Indian.	Unkno'n.
Sanilac	110	Total	----------	14,565	3.67	534	531	------	1	1	1
		Males	52.43	7,722	3.63	280	278	------	------	1	1
		Females	47.57	6,843	3.71	254	253	------	1	------	------
Schoolcraft	75	Total	----------	799	2.63	21	20	------	------	1	------
		Males	42.86	519	1.73	9	9	------	------	------	------
		Females	57.14	280	4.29	12	11	------	------	1	------
Shiawassee	113	Total	----------	20,822	2.48	517	517	------	------	------	------
		Males	53.01	10,315	2.52	273	273	------	------	------	------
		Females	46.99	10,007	2.42	242	242	------	------	------	------
		Unknown	----------	--------	--------	2	2	------	------	------	------
St. Clair	112	Total	----------	36,759	3.07	1,130	1,129	------	------	------	1
		Males	52.84	19,011	3.14	596	596	------	------	------	------
		Females	47.16	17,748	3.00	532	532	------	------	------	------
		Unknown	----------	--------	--------	2	1	------	------	------	1
St. Joseph	95	Total	----------	26,272	1.87	492	491	------	1	------	------
		Males	48.78	13,480	1.78	240	240	------	------	------	------
		Females	51.22	12,792	1.97	252	251	------	1	------	------
Tuscola	105	Total	----------	13,715	3.73	510	510	------	------	------	------
		Males	51.18	7,263	3.58	260	260	------	------	------	------
		Females	48.82	6,452	3.84	248	248	------	------	------	------
		Unknown	----------	--------	--------	2	2	------	------	------	------
Van Buren	99	Total	----------	28,835	2.18	630	613	9	5	2	1
		Males	49.84	14,907	2.11	314	306	[a] 3	3	1	1
		Females	50.16	13,928	2.27	316	307	[b] 6	2	1	------
Washtenaw	107	Total	----------	41,440	2.12	879	833	19	4	------	23
		Males	51.59	21,478	2.11	453	432	[c] 9	3	------	9
		Females	48.41	19,962	2.12	425	400	[d] 10	1	------	14
		Unknown	----------	--------	--------	1	1	------	------	------	------
Wayne	115	Total	----------	119,068	3.67	4,368	4,301	30	18	------	19
		Males	53.57	59,964	3.88	2,327	2,289	[e] 26	12	------	------
		Females	46.43	59,104	3.41	2,017	2,005	4	6	------	2
		Unknown	----------	--------	--------	24	7	------	------	------	17
Wexford	82	Total	----------	650	1.51	98	96	1	1	------	------
		Males	44.90	344	1.28	44	42	1	1	------	------
		Females	55.10	306	1.76	54	54	------	------	------	------

[a] 2 "Colored." [b] 5 "Colored." [c] 7 "African," 1 "Colored." [d] "African." [e] 1 "Colored."

From Table VI. we make four propositions, as has been done in previous Reports: 1, greater than average birth-rate, more than average proportion of males; 2, greater than average birth-rate, less than average proportion of males; 3, less than average birth-rate, less than average proportion of males; 4, less than average birth-rate, more than average proportion of males. A careful examination of this Table shows that the first proposition is true of twenty counties, the second proposition, of seventeen, the third proposition, of twenty-one, and the fourth proposition, of nine counties, while two counties have the average proportion of males. The number of counties in which certain propositions hold true in 1873 is different from previous years. The proposition that a *greater* than average birth-rate is attended with *less* than average proportion of male children, and *vice versa*, holds true in 34 out of 67 counties in 1871, 37 out of 68 counties in 1872, and in only 26 out of 69 counties in 1873. This proposition, therefore, becomes a rule in 1871 and in 1872, but not in 1873. For the year 1873 it is probable that the statements would be changed if we had the population in 1873 with which to compute the birth-rate, as in many of the counties the population has changed very much since the Census of 1870, and an examination shows that these exceptions to the proposition which come from an apparent "more than an average birth-rate" are for new counties or those rapidly increasing in population, while the exceptions arising from an apparent "less than average birth-rate" are for older counties whose population has not rapidly increased since the Census of 1870.

THE BIRTH-RATE OF NATIVE AND OF FOREIGN-BORN INHABITANTS was studied at some length in the last Report,—pages 44–54,—and is, therefore, treated briefly here. The subject of parent-nativity of children, by sex, and in detail for 1873 can be studied in Table VII., and a more general view—comparing 1873 with previous years—is given in Exhibit F. The relation of the births to the population by parent-nativity is given in Exhibit H, in which the third column from the right contains the statements of the relation which the parents of children born bear to the native and to the foreign-born inhabitants. It will be seen that in 1870 the per cent. was: Native 3.09, Foreign 8.10; in 1871,—Native 2.88, Foreign 8.12; in 1872,—Native 3.24, Foreign 8.85; and in 1873,—Native 4.07, Foreign 10.93. Exhibits I and J permit of studying by parent-nativity the relation of parents of children born to the native and foreign-born inhabitants aged 15 to 45 years—child-bearing ages for females. If one wishes to study the subject in preceding years the material is prepared for the years 1869 to 1872 inclusive, and may be seen in Exhibit J, pages 48–49 of last Report,—Vital Statistics of Michigan, 1872.

Although it may not be evident to the casual reader, Exhibits I and J furnish data for an approximate estimate of the average ultimate number of children to each native and foreign-born woman at child-bearing age. The subject was so thoroughly examined in last Report that it does not seem best to enl upon it here, but to give the statistics on the subject for 1873, and ref reader to pages 55 to 68 in last Report for a more complete study of the

Exhibit J also permits of a comparison of the twin birth-rate native-born inhabitants with that among the foreign-born, by using in connection with Exhibit M, following. Exhibit J shows the bir "One or Both Parents Foreign" to be not quite twice as larg "One or Both Parents Native," while Exhibit M shows t among the "One or Both Parents Foreign" to be three ti among the "One or Both Parents Native." From thes

the twin birth-rate among the foreign-born inhabitants is very much greater than among the native-born.

It is gratifying to note the rapid decrease in the proportion of births whose parent-nativity was not stated in the returns. In 1871 the proportion of "Both Unknown" is 1.89, in 1872 it is 1.36, and in 1873 it is 1.06. It may be seen that, in cases where the nativity of only one parent is given, the other being unknown, the proportion is much greater among those where the nativity of the mother is unknown. This is true of all the years, but the large excess over those cases in which the nativity of father is unknown is constantly decreasing. This excess is probably due to an impression which many Supervisors and Assessors may have, that if they return the birthplace of the father it is not necessary to return that of the mother. In all such cases the birthplace of the mother has to be compiled with the unknown.

The subject of parent-nativity of children born in Michigan can be studied by counties in Table VIII.; with reference to twin children in Tables X., XI., and XII., and Exhibits 5, and M; as relates to still-born children in Tables XIV. and XV., and Exhibit 7; concerning illegitimate children in Tables XVI., XVII., and XVIII., and in Exhibit 9; and as regards each of the above-named classes of births in Table XXVIII.

By Exhibit F it is seen that the proportion of children of Native-born parentage decreased from 1869 until 1872, and increased in 1872 and 1873. The proportion of children whose parents were both foreign-born has been steadily increasing since 1869, except in 1873, when it falls slightly below 1872. The proportion of "One or Both Unknown" has been constantly and rapidly decreasing since 1869, except in 1871, and to this is probably due the increase of the "Both Parents Foreign." In "One or Both Parents Native," the proportion has been increasing in each year except 1871; and in "One or Both Parents Foreign" the proportion has increased every year from 1869 to 1873.

TABLE VII.—*Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Parent-Nativity of Children born in Michigan during the Year 1873.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS IN 1873.							
	NUMBER.				PER CENT. OF TOTAL.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities	34,608	17,908	16,632	68	100.00	100.00	100.00	100.00
Both Parents Native	16,202	8,335	7,842	25	46.82	46.54	47.15	36.77
Both Parents Foreign	11,946	6,236	5,694	16	34.52	34.82	34.24	23.53
Foreign Father and Native Mother	3,388	1,727	1,654	7	9.79	9.64	9.94	10.29
Foreign Mother and Native Father	1,941	1,005	935	1	5.61	5.61	5.62	1.47
Unknown Mother, Father Native	254	142	110	2	.73	.79	.66	2.94
Unknown Mother, Father Foreign	184	99	85	.....	.53	.55	.51	.....
Unknown Father, Mother Native	179	93	84	2	.52	.52	.51	2.94
Unknown Father, Mother Foreign	146	78	56	12	.42	.44	.34	17.65
Both Unknown	368	193	172	3	1.06	1.08	1.03	4.41
One or Both Native	21,964	11,302	10,625	37	63.47	63.11	63.88	54.41
One or Both Foreign	17,605	9,145	8,424	36	50.87	51.07	50.65	52.94

EXHIBIT F.—*Parent-Nativity of Children Born in Michigan during each of the Years 1869, 1870, 1871, 1872, and 1873.*

NATIVITY OF PARENTS OF CHILDREN BORN.	Births, 1869.		Births, 1870.		Births, 1871.		Births, 1872.		Births, 1873.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
All Nativities	27,093	100.00	26,663	100.00	25,992	100.00	27,993	100.00	34,608	100.00
Both Parents Native	13,060	48.20	12,395	46.48	11,374	43.75	12,907	46.11	16,202	46.81
Both Parents Foreign	8,043	29.68	8,604	32.26	8,734	33.60	9,721	34.73	11,946	34.52
Fathers Foreign and Mothers Native	1,904	7.02	2,246	8.42	2,109	8.11	2,599	9.28	3,388	9.79
Mothers Foreign and Fathers Native	1,219	4.49	1,325	4.96	1,217	4.68	1,359	4.85	1,941	5.61
One or Both Unknown	2,867	10.58	2,093	7.84	2,558	9.84	1,407	5.03	1,131	3.27
One or Both Parents Native [a]	16,183	59.73	15,966	59.88	14,700	56.55	16,865	60.25	21,531	62.21
One or Both Parents Foreign [a]	11,166	41.21	12,175	45.66	12,060	46.39	13,679	48.87	17,275	49.91

[a] Excluding cases where nativity of either parent is unknown.

EXHIBIT H.—*Parent-Nativity of Children Born in Michigan during each of the Years 1870, 1871, 1872, and 1873,—Relation of Native and Foreign-born Parents to Native and Foreign-born Inhabitants, June 1, 1870.*

NATIVITY OF PARENTS OF CHILDREN, AND NATIVITY OF INHABITANTS.	Native and Foreign-born Population, June 1, 1870.			Parents of Children Born in 1870, 1871, 1872, and 1873.						
				Year.	Number. [a]			Per Ct. of Parents to Population of same Sex and Nativity.		
	Total.	Males.	Females.		Both Parents.	Fathers.	Mothers.	Both Parents.	Fathers.	Mothers.
All Nativities [b]	[d] 1,158,166	603,655	554,511	1870	52,632	26,316	26,316	4.54	4.36	4.75
Native [c]	[d] 904,740	463,422	441,318	1870	27,972	13,531	14,441	3.09	2.92	3.27
Foreign [c]	[d] 253,426	140,233	113,193	1870	20,532	10,721	9,811	8.10	7.65	8.67
All Nativities [b]	[e] 1,147,234	597,767	549,466	1871	51,376	25,688	25,688	4.48	4.30	4.68
Native [c]	[e] 894,202	457,914	436,288	1871	25,778	12,447	13,331	2.88	2.72	3.06
Foreign [c]	[e] 253,032	139,854	113,178	1871	20,554	10,719	9,835	8.12	7.66	8.67
All Nativities [b]	[f] 1,169,283	609,946	559,337	1872	55,282	27,641	27,641	4.73	4.53	4.94
Native [c]	[f] 908,625	465,386	443,239	1872	29,420	14,097	15,323	3.24	3.03	3.46
Foreign [c]	[f] 260,658	144,560	116,098	1872	23,072	12,154	10,918	8.85	8.41	9.40
All Nativities [b]	[g] 1,179,082	615,228	563,854	1873	68,356	34,178	34,178	5.80	5.56	6.06
Native [c]	[g] 915,366	468,888	446,478	1873	37,279	17,914	19,365	4.07	3.82	4.34
Foreign [c]	[g] 263,716	146,340	117,376	1873	28,822	15,136	13,686	10.93	10.34	11.66

[a] As shown by number of children born, after subtracting the proper number for twins and triplets, and one set of quartettes in 1873.
[b] Includes parents of unknown nativities.
[c] Excluding cases where nativity of either parent is unknown.
[d e f g] Except of counties and townships not represented by returns of births for the years 1870, 1871, 1872, and 1873, respectively.

EXHIBIT I.—*Nativity of Inhabitants of Michigan, June 1, 1870, aged 15 to 45 years, stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such ages.*

NATIVITY OF INHABITANTS.	INHABITANTS, JUNE 1, 1870, AGED 15 TO 45 YEARS.[a]					
	NUMBER.			PER CENT. OF TOTAL.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities	555,352	289,085	266,267	100.00	100.00	100.00
Native-born	387,306	195,765	191,541	69.74	67.71	71.93
Foreign-born	168,046	93,320	74,726	30.25	32.28	28.06

[a] From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

EXHIBIT J.—*By Sex, the Relation of Native and Foreign-born Parents of Children born in Michigan during the Year 1873 to the Native and Foreign-born Inhabitants of Michigan, June 1, 1870, at child-bearing ages,—15 to 45 years.*

NATIVITY OF PARENTS OF CHILDREN BORN.	NUMBER OF PARENTS OF CHILDREN BORN IN 1873.[a]			PER CENT. OF PARENTS OF CHILDREN BORN IN 1873 TO INHABITANTS, JUNE 1, 1870, OF SAME NATIVITY AND SEX, AGED 15 TO 45.		
	Both Parents.	Fathers.	Mothers.	Both Parents.	Fathers.	Mothers.
All Nativities	68,356	34,178	34,178	12.31	11.82	12.84
Both Parents Native	32,012	16,006	16,006	[b] 8.27	[c] 8.18	[d] 8.36
Both Parents Foreign	23,558	11,779	11,779	[e] 14.02	[f] 12.62	[g] 15.76
Fathers Foreign, Mothers Native	6,718	3,359	3,359	[f] 7.20	[f] 3.60	[d] 1.75
Mothers Foreign, Fathers Native	3,818	1,909	1,909	[g] 5.11	[g] 2.55	[c] .98
One or Both Parents Unkno'n	2,250	1,125	1,125	----	----	----
One or Both Parents Native.[h]	42,548	21,274	21,274	[b] 10.99	[c] 10.87	[d] 11.11
One or Both Parents Foreign[h]	34,094	17,047	17,047	[e] 20.29	[f] 18.27	[g] 22.31
Mothers... Native	----	----	19,769	----	----	[d] 10.33
Mothers... Foreign	----	----	14,033	----	----	[g] 18.78
Mothers... Unknown	----	----	806	----	----	----
Fathers... Native	----	18,397	----	----	[c] 9.40	----
Fathers... Foreign	----	15,518	----	----	[f] 16.63	----
Fathers... Unknown	----	693	----	----	----	----

[a] As shown by number of children born, after subtracting the proper number for twins, triplets, and quartettes. [b] Per Cent. to native-born inhabitants aged 15 to 45. [c] Per Cent. to native-born males aged 15 to 45. [d] Per Cent. to native-born females aged 15 to 45. [e] Per Cent. to foreign-born inhabitants aged 15 to 45. [f] Per Cent. to foreign-born males aged 15 to 45. [g] Per Cent. to foreign-born females aged 15 to 45. [h] Excluding cases where nativity of either parent is unknown.

EXHIBIT K.—*Nativity of Inhabitants of Michigan, June 1, 1870, aged 20 to 45 Years,—stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such ages.*

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN, JUNE 1, 1870, AGED 20 TO 45 YEARS.[a]					
	NUMBER.			PER CENT. OF TOTAL.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities	436,043	228,874	207,169	100.00	100.00	100.00
Native-born	289,004	146,278	142,726	66.28	63.91	68.89
Foreign-born	147,039	82,596	64,443	33.72	36.09	31.11

[a] From Tables XXIII., XXIV., and XXV., Volume II. Ninth U. S. Census, 1870.

EXHIBIT L.—*Nativity of Inhabitants of Michigan, June 1, 1870, aged 25 to 45 years,—stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such ages.*

NATIVITY OF INHABITANTS.	INHABITANTS, JUNE 1, 1870, AGED 25 TO 45 YEARS.[a]					
	NUMBER.			PER CENT. OF TOTAL.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities	320,546	168,756	151,790	100.00	100.00	100.00
Native-born	205,374	103,900	101,474	64.07	61.56	66.85
Foreign-born	115,172	64,856	50,316	35.93	38.43	33.15

[a] From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

Exhibits K and L are here given in order to indicate how the per cent. of births to inhabitants would be modified by selecting other ages than 15 to 45 years as is done in Exhibit H. It will be seen that the proportion of Foreign-born inhabitants is greater at the ages 20 to 45 than at the ages 15 to 45 years; and is still greater at the ages of 25 to 45 years.

TABLE VIII.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children Born during the Year 1873, and the Parent-Nativity of such Children, so far as stated in the Returns. (Still-births included.)*

STATE AND COUNTIES.	Sex.	Number of Children Born in 1873.	Nativity of Parents.—1873.[a]								
			Native.	Foreign.	Foreign Father, Native Mother.	Foreign Mother, Native Father.	Mother Unk.		Father Unk.		Both Unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
State[b]	Total	34,608	16,202	11,946	3,388	1,941	254	184	179	146	368
	Males	17,908	8,335	6,236	1,727	1,005	142	[c] 99	93	[d] 78	[e] 192
	Females	16,632	7,842	5,694	1,654	935	110	[f] 85	84	[g] 66	[h] 172
	Unknown	68	25	16	7	1	2	.....	2	12	[i] 3
Alcona[j]	Total	40	13	6	7	4	1	7	.....	.....	2
	Males	22	10	1	3	3	.....	5	.....	.....	.....
	Females	18	3	5	4	1	1	2	.....	.....	2
Allegan	Total	796	434	236	58	42	6	4	3	1	12
	Males	404	221	119	29	20	4	2	2	.....	7
	Females	392	213	117	29	22	2	2	1	1	5
Alpena[j]	Total	161	35	114	6	5	.....	1	.....	.....	.....
	Males	89	19	64	2	3	.....	1	.....	.....	.....
	Females	72	16	50	4	2	.....	.....	.....	.....	.....
Antrim[j]	Total	54	26	17	7	4	.....	.....	.....	.....	.....
	Males	33	18	9	3	3	.....	.....	.....	.....	.....
	Females	21	8	8	4	1	.....	.....	.....	.....	.....
Barry	Total	586	427	67	51	34	4	1	1	.....	1
	Males	299	213	39	25	18	3	1	.....	.....	.....
	Females	287	214	28	26	16	1	.....	1	.....	1
Bay	Total	798	182	392	129	76	11	6	.....	1	1
	Males	382	85	181	60	43	9	3	.....	.....	1
	Females	416	97	211	69	33	2	3	.....	1	.....
Benzie	Total	81	49	15	9	6	2	.....	.....	.....	.....
	Males	36	25	6	3	2	.....	.....	.....	.....	.....
	Females	45	24	9	6	4	2	.....	.....	.....	.....
Berrien	Total	821	482	217	78	30	3	1	4	1	5
	Males	418	255	103	36	17	2	1	2	.....	2
	Females	402	227	113	42	13	1	.....	2	1	3
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." [b] For counties and townships from which no returns were received, see Table XXI. [c] 3 Mother "America." [d] 5 Father "America." [e] 15 "America," 15 Mother "America," and 1 "American Indian." [f] 4 Mother "America." [g] 4 Father "America." [h] 15 "America," 9 Mother "America," 1 Father "American Indian," and 1 "American Indian." [i] 1 Mother "America." [j] For townships not represented by returns of births, see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Number of Children Born in 1873.	NATIVITY OF PARENTS.—1873.								
			Native.	Foreign.	Foreign Father, Native Mother.	Foreign Mother, Native Father.	Mother Unk. Father.		Father Unk. Mother.		Both Unkno'n.
							Native.	Foreign.	Native.	Foreign.	
Branch	Total	557	455	28	33	24	9	4	2	.....	2
	Males	294	244	11	20	12	3	2	1	.....	1
	Females	263	211	17	13	12	6	2	1	.....	1
Calhoun	Total	735	519	111	58	32	4	2	3	1	5
	Males	368	255	57	31	16	3	1	2	1	2
	Females	366	263	54	27	16	1	1	1	.....	3
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Cass	Total	473	383	29	30	15	8	1	4	.....	3
	Males	257	207	17	17	9	5	.....	.....	.....	2
	Females	215	175	12	13	6	3	1	4	.....	1
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Charlevoix[a]	Total	62	23	23	9	8	.....	.....	.....	.....	.....
	Males	19	7	7	2	3	.....	.....	.....	.....	.....
	Females	43	15	16	7	5	.....	.....	.....	.....	.....
Cheboygan	Total	106	34	46	16	8	2	.....	.....	.....	.....
	Males	53	17	21	11	2	2	.....	.....	.....	.....
	Females	53	17	25	5	6	.....	.....	.....	.....	.....
Chippewa[a]	Total	40	15	12	8	3	1	.....	1	.....	.....
	Males	17	4	8	4	1	.....	.....	.....	.....	.....
	Females	23	11	4	4	2	1	.....	1	.....	.....
Clare	Total	21	14	2	4	1	.....	.....	.....	.....	.....
	Males	12	7	2	2	1	.....	.....	.....	.....	.....
	Females	9	7	.....	2	.....	.....	.....	.....	.....	.....
Clinton	Total	651	437	99	81	31	2	.....	.....	.....	1
	Males	331	220	48	44	17	2	.....	.....	.....	.....
	Females	320	217	51	37	14	.....	.....	.....	.....	1
Delta[b]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eaton	Total	655	542	33	36	17	14	2	6	.....	6
	Males	337	274	20	16	10	9	1	3	.....	4
	Females	313	264	11	20	7	5	1	3	.....	'
	Unknown	5	4	1	.....	.....	.....	.....	.....	.....	
Emmet[a]	Total	41	14	1	2	.....	20	2	1	1	
	Males	23	8	.....	1	.....	10	2	1		
	Females	18	6	1	1	.....	10	.....			

[a] For townships not represented by returns of births, see Table XXI. [b] See this Department.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	Sex.	Number of Children Born in 1873.	NATIVITY OF PARENTS.—1873.								
			Native.	Foreign.	Foreign Father, Native Mother.	Foreign Mother, Native Father.	Mother Unk.		Father Unk.		Both Unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Genesee	Total	736	460	129	77	62	1	1	2	1	3
	Males	372	235	56	44	31	1	1	1	1	2
	Females	364	225	73	33	31	.....	.....	1	.....	1
Grand Traverse	Total	123	49	35	14	10	6	5	1	.....	3
	Males	67	26	20	7	6	4	1	1	.....	2
	Females	56	23	15	7	4	2	4	.....	.....	1
Gratiot	Total	430	321	25	52	28	.....	.....	2	1	1
	Males	223	171	12	25	13	.....	.....	.....	1	1
	Females	207	150	13	27	15	.....	.....	2	.....	.....
Hillsdale	Total	591	464	28	29	17	45	4	3	.....	1
	Males	308	241	13	17	9	24	2	2	.....	.....
	Females	282	223	15	12	8	20	2	1	.....	1
	Unknown	1	.....	.....	.....	.....	1	.....	.....	.....	.....
Houghton	Total	612	22	515	31	8	.....	17	.....	2	17
	Males	329	11	277	20	4	.....	9	.....	2	6
	Females	283	11	238	11	4	.....	8	.....	.....	11
Huron	Total	437	48	312	49	23	.....	3	.....	2	.....
	Males	221	26	152	24	15	.....	3	.....	1	.....
	Females	216	22	160	25	8	.....	.....	.....	1	.....
Ingham	Total	654	493	60	55	36	1	.....	4	.....	5
	Males	368	285	33	27	19	.....	.....	1	.....	3
	Females	286	208	27	28	17	1	.....	3	.....	2
Ionia	Total	660	453	84	71	41	6	2	2	.....	1
	Males	350	245	41	39	20	3	.....	2	.....	.....
	Females	310	208	43	32	21	3	2	.....	.....	1
Iosco[a]	Total	134	18	74	22	13	.....	1	2	1	3
	Males	68	8	38	14	4	.....	.....	2	.....	2
	Females	65	10	35	8	9	.....	1	.....	1	1
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Isabella[a]	Total	161	107	32	12	10	.....	.....	.....	.....	.....
	Males	85	50	22	10	3	.....	.....	.....	.....	.....
	Females	76	57	10	2	7	.....	.....	.....	.....	.....
Jackson	Total	891	560	169	80	39	6	1	4	1	31
	Males	452	292	86	37	17	5	1	1	.....	13
	Females	436	266	83	43	22	1	.....	3	1	17
	Unknown	3	2	.....	.....	.....	.....	.....	.....	.....	1

[a] For townships not represented by returns of births, see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	Sex.	Number of Children Born. in 1873.	NATIVITY OF PARENTS.—1873.								
			Native.	Foreign.	Foreign Father, Native Mother.	Foreign Mother, Native Father.	Mother Unk. Father.		Father Unk. Mother.		Both Unkno'n.
							Native.	Foreign.	Native.	Foreign.	
Kalamazoo	Total	732	457	151	59	42	4	6	7	.....	6
	Males	367	228	79	27	19	3	4	3	.....	4
	Females	364	228	72	32	23	1	2	4	.....	2
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Kalkaska	Total	42	19	8	8	6	.....	.....	.....	.....	1
	Males	19	9	4	4	1	.....	.....	.....	.....	1
	Females	23	10	4	4	5	.....	.....	.....	.....	.....
Kent	Total	1,043	740	586	169	95	5	8	4	5	31
	Males	872	391	306	94	54	1	[a] 4	2	1	[b] 19
	Females	766	347	278	74	41	4	[c] 4	2	[d] 4	[e] 12
	Unknown	5	2	2	1	.....	.....	.....	.....	.....	.....
Keweenaw [f]	Total	183	10	161	10	.....	.....	.....	.....	1	1
	Males	92	6	78	7	.....	.....	.....	.....	.....	1
	Females	91	4	83	3	.....	.....	.....	.....	1	.....
Lake	Total	60	36	13	6	3	.....	.....	.....	.....	2
	Males	37	21	8	5	2	.....	.....	.....	.....	1
	Females	23	15	5	1	1	.....	.....	.....	.....	1
Lapeer	Total	655	250	211	92	67	14	16	3	.....	2
	Males	366	138	120	51	38	6	10	1	.....	2
	Females	289	112	91	41	29	8	6	2	.....	.....
Leelanaw	Total	158	54	71	19	11	.....	2	.....	1	.....
	Males	75	27	31	8	6	.....	2	.....	1	.....
	Females	83	27	40	11	5	.....	.....	.....	.....	.....
Lenawee	Total	1,005	688	179	89	34	.....	1	10	.....	4
	Males	528	361	101	40	18	.....	1	3	.....	4
	Females	476	326	78	49	16	.....	.....	7	.....	.....
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Livingston	Total	476	343	66	36	24	.....	.....	3	1	3
	Males	232	165	35	23	7	.....	.....	1	.....	1
	Females	244	178	31	13	17	.....	.....	2	1	2
Mackinac	Total	49	40	6	3	.....	.....	.....	.....	.....	—
	Males	22	19	3	.....	.....	.....	.....	.....	—	
	Females	27	21	3	3	.....	.....	.....	—		

[a] 1 Mother "America." [b] 3 "America." [c] 1 Mother "America." [d] 2 Father "America." [f] For townships not represented by returns of births, see Table XI.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Number of Children Born in 1873.	NATIVITY OF PARENTS.—1873.								
			Native.	Foreign.	Foreign Father, Native Mother.	Foreign Mother, Native Father.	Mother Unk.		Father Unk.		Both Unkno'n.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Macomb	Total	794	357	274	103	52	5	1	.....	.....	2
	Males	392	179	133	50	24	4	.....	.....	.....	[a] 2
	Females	400	176	141	53	28	1	[b] 1	.....	.....	.....
	Unknown	2	2	.....	.....	.....	.....	.....	.....	.....	.....
Manistee [c]	Total	330	66	181	37	20	1	17	2	1	5
	Males	181	39	105	17	7	.....	10	.....	.....	3
	Females	148	27	76	19	13	1	7	2	1	2
	Unknown	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Manitou [c]	Total	24	3	19	1	1	.....	.....	.....	.....	.....
	Males	11	1	9	.....	1	.....	.....	.....	.....	.....
	Females	13	2	10	1	.....	.....	.....	.....	.....	.....
Marquette [c]	Total	673	52	548	54	18	.....	.....	.....	1	.....
	Males	364	28	297	28	10	.....	.....	.....	1	.....
	Females	309	24	251	26	8	.....	.....	.....	.....	.....
Mason [c]	Total	137	62	42	14	7	8	2	.....	1	1
	Males	68	27	28	5	3	5	.....	.....	.....	.....
	Females	69	35	14	9	4	3	2	.....	1	1
Mecosta	Total	245	116	77	31	21	.....	.....	.....	.....	.....
	Males	128	59	44	15	10	.....	.....	.....	.....	.....
	Females	117	57	33	16	11	.....	.....	.....	.....	.....
Menominee	Total	130	30	62	21	8	.....	1	.....	.....	8
	Males	62	15	32	7	3	.....	.....	.....	.....	5
	Females	68	15	30	14	5	.....	1	.....	.....	3
Midland [c]	Total	97	48	27	9	13	.....	.....	.....	.....	.....
	Males	39	17	11	4	7	.....	.....	.....	.....	.....
	Females	58	31	16	5	6	.....	.....	.....	.....	.....
Missaukee	Total	19	10	3	2	2	.....	2	.....	.....	.....
	Males	10	5	2	1	1	.....	1	.....	.....	.....
	Females	8	5	.....	1	1	.....	1	.....	.....	.....
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Monroe	Total	875	470	249	92	40	13	2	6	.....	3
	Males	464	244	143	48	17	6	2	2	.....	2
	Females	406	222	106	43	23	7	.....	4	.....	1
	Unknown	5	4	.....	1	.....	.....	.....	.....	.....	.....

[a] 1 "America." [b] 1 Mother "America." [c] For townships not represented by returns of births, see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Number of Children Born in 1873.	NATIVITY OF PARENTS.—1873.								
			Native.	Foreign.	Foreign Father, Native Mother.	Foreign Mother, Native Father.	MOTHER UNK. Father.		FATHER UNK. Mother.		Both Unkno'n.
							Native.	Foreign.	Native.	Foreign.	
Montcalm	Total	513	342	90	40	34	2	1	2	1	1
	Males	246	153	48	19	20	2	.....	2	1	1
	Females	267	189	42	21	14	.....	1	.....	.....	.....
Muskegon	Total	538	151	242	62	30	1	1	12	27	12
	Males	271	83	113	31	15	1	1	4	16	7
	Females	265	68	128	31	15	.....	.....	8	11	4
	Unknown	2	.....	1	.....	.....	.....	.....	.....	.....	1
Newaygo	Total	229	143	38	33	10	4	.....	1	.....	.....
	Males	124	76	22	18	5	2	.....	1	.....	.....
	Females	105	67	16	15	5	2	.....	.....	.....	.....
Oakland	Total	718	473	114	65	43	14	5	.....	.....	4
	Males	360	247	54	27	24	6	1	.....	.....	1
	Females	358	226	60	38	19	8	[a] 4	.....	.....	3
Oceana	Total	282	155	59	24	21	.....	.....	1	.....	2
	Males	128	73	31	14	9	.....	.....	.....	.....	1
	Females	133	82	28	9	12	.....	.....	1	.....	1
	Unknown	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Ontonagon	Total	74	5	47	12	10	.....	.....	.....	.....	.....
	Males	32	4	19	5	4	.....	.....	.....	.....	.....
	Females	42	1	28	7	6	.....	.....	.....	.....	.....
Osceola	Total	204	96	72	19	14	.....	1	1	1	.....
	Males	118	58	36	14	8	.....	1	1	.....	.....
	Females	85	38	36	5	5	.....	.....	.....	1	.....
	Unknown	1	.....	.....	.....	[c] 1	.....	.....	.....	.....	.....
Ottawa	Total	968	337	475	91	45	1	6	1	1	11
	Males	507	181	248	40	27	1	3	1	.....	[b] 6
	Females	458	156	225	50	18	.....	[e] 3	.....	[d] 1	[e] 5
	Unknown	3	.....	2	1	.....	.....	.....	.....	.....	.....
Presque Isle [f]	Total	7	.....	7	.....	.....	.....	.....	.....	.....	.....
	Males	3	.....	3	.....	.....	.....	.....	.....	.....	
	Females	4	.....	4	.....	.....	.....	.....	.....		
Saginaw	Total	1,492	459	809	195	63	6	4	[g] 2		
	Males	757	221	419	73	33	3	[g]			
	Females	724	238	390	82	33	2				
	Unknown	1	.....	.....	.....	.....	1				

[a] 1 Mother "America." [b] 1 "Am. Indian;" 1 "America." [c] 1 Mother "America." [d] 1 Father "American Indian;" 1 "American Indian." [f] For tenth returns of births, see Table XXI. [g] 2 "America." [e] 3 "America."

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	Sex.	Number of Children Born in 1873.	NATIVITY OF PARENTS.—1873.								
			Native.	Foreign.	Foreign Father, Native Mother.	Foreign Mother, Native Father.	Mother Unk. Father.		Father Unk. Mother.		Both Unkno'n.
							Native.	Foreign.	Native.	Foreign.	
Sanilac	Total	534	36	360	80	54	.....	3	.....	.....	1
	Males	280	21	191	36	29	.....	2	.....	.....	1
	Females	254	15	169	44	25	.....	1	.....	.....	.....
Schoolcraft	Total	21	2	11	5	1	1	1	.....	.....	.....
	Males	9	1	5	1	1	1	.....	.....	.....	.....
	Females	12	1	6	4	.....	.....	1	.....	.....	.....
Shiawassee	Total	517	360	89	29	34	1	.....	3	1	.....
	Males	273	191	43	18	18	.....	.....	3	.....	.....
	Females	242	168	45	11	16	1	.....	.....	1	.....
	Unknown	2	1	1	.....	.....	.....	.....	.....	.....	.....
St. Clair	Total	1,130	220	620	148	130	1	3	3	1	4
	Males	596	103	338	81	69	1	1	2	.....	1
	Females	532	115	282	67	61	.....	2	1	1	3
	Unknown	2	2	.....	.....	.....	.....	.....	.....	.....	.....
St. Joseph	Total	492	373	80	24	11	.....	.....	4	.....	.....
	Males	240	184	38	11	3	.....	.....	4	.....	.....
	Females	252	189	42	13	8	.....	.....	.....	.....	.....
Tuscola	Total	510	228	149	65	60	3	.....	4	.....	1
	Males	260	115	75	35	31	3	.....	1	.....	.....
	Females	248	112	73	30	29	.....	.....	3	.....	1
	Unknown	2	1	1	.....	.....	.....	.....	.....	.....	.....
Van Buren	Total	630	505	39	53	27	3	.....	2	.....	1
	Males	314	255	19	25	14	.....	.....	1	.....	.....
	Females	316	250	20	28	13	3	.....	1	.....	1
Washtenaw	Total	879	398	286	105	56	12	7	7	.....	8
	Males	453	194	151	58	33	6	3	4	.....	4
	Females	425	203	135	47	23	6	4	3	.....	4
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Wayne	Total	4,368	936	2,482	435	200	3	29	55	84	144
	Males	2,327	488	1,341	212	110	2	[a] 15	35	[b] 48	[d] 76
	Females	2,017	446	1,136	221	90	1	14	18	[c] 24	[e] 67
	Unknown	24	2	5	2	.....	.....	.....	2	12	[f] 1
Wexford	Total	98	54	33	4	7	.....	.....	.....	.....	.....
	Males	44	29	10	2	3	.....	.....	.....	.....	.....
	Females	54	25	23	2	4	.....	.....	.....	.....	.....

[a] 2 Mother "America." [b] 5 Father "America." [c] 1 Father "America." [d] 15 Mother "America;" 3 "America." [e] 9 Mother "America;" 9 "America." [f] 1 Mother "America."

TABLE IX.—*Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children Returned as having been Born in Michigan during the Year 1873, by Months Arranged in order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.*

	YEAR AND MONTHS.	Number of Twin Children.					Number of Pairs of Twins.						
		Total.	Males.	Females.	Unkno'n.	Males to 100 Females.	Total.	Males.	Females.	One of Each Sex.	Unkno'n.	Males to 100 one of each Sex.	Males to 100 Females.
	Year, 1873	840	469	428	3	96	420	122½	132	164	1½	75	93
More than the average No. of twins.	July	111	40	71	.....	56	55½	10½	26	19	.....	55	40
	September	86	43	43	.....	100	43	14	14	15	.....	93	100
	December	80	40	40	.....	100	40	13	13	14	.....	93	100
	August	79	41	38	.....	108	39½	11	9½	19	.....	58	116
	March	70	32	38	.....	84	35	8	11	16	.....	50	73
	Average	70	34	35.6	.....	96	35	10.2	11	13.6	.....	75	93
Less than the average number of twins.	November	68	34	34	.....	100	34	9	9	16	.....	56	100
	June	66	38	28	.....	136	33	12	7	14	.....	86	171
	April	62	29	33	.....	88	31	10	12	9	.....	111	83
	October	62	35	27	.....	130	31	13	9	9	.....	144	144
	January	58	29	29	.....	100	29	8	8	13	.....	62	100
	May	58	32	25	1	128	29	10	6½	12	½	83	154
	February	40	16	22	2	73	20	4	7	8	1	50	57

Twin Children.—There is a general correspondence between the order of succession of the months of the twin births, as shown by Table IX., and that of the total births, as shown by Table II. In Table IX. it may be seen that the months having more than an average number of twin births are those in the last half of the year, except March, which has just the average number, and therefore may as properly be placed among the months having less than the average number of twin births. The similar tables for previous years make a similar exhibit. It is therefore probable that the theory that the omissions in the enumeration of births are in direct proportion to the time elapsing between the time of their occurrence and their enumeration is applicable to the returns of births of twins, and that a correction for omissions is needed in order to learn the relative number of twins born in each month.

With the single exception of 1870, each year shows the largest proportion of pairs of twins composed of one male and one female child—"One of Each Sex;" and in 1873, this excess is greater in the latter part of the year than in the former, although this is not the case in other years.

The number of males to one hundred females is greater tha
pairs of male twins to one hundred pairs of twins compo
sex. This is true for each year, and for a majority of th
except 1870.

The order of greatest number of pairs of twins

sex, 164; both females, 132; both males 122½. In 1872 the order was the same as in 1873; in 1871 it was: one of each sex, males, females: in 1870 it was: males, one of each sex, females. The number of pairs of twins, for the several years, arranged in order—greatest number first—is: 1873, 420; 1872, 342; 1870, 339; 1871, 298.

By comparing Table X. with Table VII., preceding, it will be seen that the per cent. of parents "one or both foreign," is greater in the table for twin children than in the table for all children returned as having been born in Michigan in 1873.

TABLE X.—*Parent-Nativity of Twins Returned as having been Born in Michigan during the year 1873.*

NATIVITY OF PARENTS.	TWINS.									
	NUMBER OF PAIRS.					PER CENT. OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.				
	Total.	Males.	Females.	One of Each Sex.	Unkno'n.	Total.	Males.	Females.	One of Each Sex.	Unkno'n.
All Nativities	420	122½	132	164	1½	100.00	100.00	100.00	100.00	100.00
Both Native	191½	57	50	83	1½	45.59	46.53	37.88	50.61	100.00
Both Foreign	162	43	56	63	.....	38.57	35.10	42.42	38.41	.....
Foreign Father and Native Mother	28½	11½	13	4	.....	6.78	9.39	9.85	2.44	.....
Foreign Mother and Native Father	32	8	11	13	.....	7.62	6.53	8.33	7.93	.....
Unknown Mother, Father Native	1	.....	1	.....	.....	.24	.....	.76	.....	.....
Unknown Mother, Father Foreign	2	1	1	.....	.....	.48	.82	.76	.....	.....
Unknown Father, Mother Native	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown Father, Mother Foreign	2	2	.....	.....	.....	.48	1.63	.....	.....	.....
Both Unknown	1	.....	.....	1	.....	.24	.....	.....	.61	.....
One or Both Native	253	76½	75	100	1½	60.24	62.45	56.82	60.98	100.00
One or Both Foreign	226½	65½	81	80	.....	53.93	53.47	61.36	48.78	.....

EXHIBIT 5.—*By Nativity and by Color of Mothers, the Number and Proportion of Twins Returned as having been Born in Michigan during the Years 1871, 1872, and 1873.*

NATIVITY AND COLOR OF MOTHERS.	1871.			1872.			1873.		
	No. of Pairs of Twins.	Whole No. of Moth'rs, including those of Twins.	Per Ct. of Births of Twins to all Moth'rs.	No. of Pairs of Twins.	Whole No. of Moth'rs, including those of Twins.	Per Ct. of Births of Twins to all Moth'rs.	No. of Pairs of Twins.	Whole No. of Moth'rs, including those of Twins.	Per Ct. of Births of Twins to all Moth'rs.
Mothers of all colors and all nativities	298	25,686	1.16	342	27,641	1.24	[a] 421	34,180	1.23
All native mothers	148	13,496	1.10	180	15,459	1.16	221	19,546	1.13
All foreign mothers	114	10,141	1.12	150	11,015	1.36	196	13,832	1.42
Mothers of unknown nativities	36	2,051	1.76	12	1,167	1.03	4	802	.50
White	290	25,263	1.15	337	27,188	1.24	417	33,424	1.25
Black	1	185	.54	[b] 3	121	2.48	3	140	2.14
Mulatto	2	31	6.45	------	59	--------	------	103	--------
Indian	3	132	2.27	1	169	.59	------	161	--------
Unknown	2	77	2.60	1	104	.96	1	352	.28
Black and Mulatto	3	216	1.39	[b] 3	180	1.67	3	243	1.23

[a] This table differs from all other tables of twins for 1873 by two half pairs added to match the two odd half pairs returned and compiled.
[b] Includes 1 "Colored," and 1 "Negro."

This Exhibit 5 is similar to Exhibit 5 in previous Report, and adds the evidence of one more year to the proposition mentioned on page 81 of previous Report, viz.: "that the physical tendency toward reproduction is lessened among the most highly cultivated classes, which tend rather toward individual maintenance and development." In each year the proportion of twin children among native-born mothers is smaller than it is among foreign-born mothers.

EXHIBIT M.—*Parent-Nativity of Twins Returned as having been Born in Michigan during the Years 1870, 1871, 1872, and 1873,—Relation of Native and Foreign-born Parents to Native and Foreign-born Inhabitants, June 1, 1870.*

NATIVITY OF PARENTS OF TWINS, AND NATIVITY OF INHABITANTS.	NATIVE AND FOREIGN-BORN POPULATION, JUNE 1, 1870.			PARENTS OF TWINS BORN IN 1870, 1871, 1872, AND 1873.							
				Year.	NUMBER.			PER CT. OF PARENTS TO POPULATION OF SAME SEX AND NATIVITY.		
	Total.	Males.	Females.		Both Parents.	Father.	Mother.	Both Parents.	Father.	Mother.
All Nativities [a]	[b] 1,158,156	603,655	554,511		620	310	310	.05	.05	.06
Native [a]	[b] 904,740	463,422	441,318	1870	377	183	194	.04	.04	.04
Foreign [a]	[b] 253,426	140,233	113,193		243	127	116	.10	.09	.10
All Nativities [a]	[c] 1,147,234	597,768	549,466		524	262	262	.05	.04	.05
Native [a]	[c] 894,202	457,914	436,288	1871	288	140	148	.03	.03	.03
Foreign [a]	[c] 253,032	139,854	113,178		236	122	114	.09	.09	.10
All Nativities [a]	[d] 1,169,283	609,946	559,337		654	327	327	.06	.05	.06
Native [a]	[d] 908,625	465,386	443,239	1872	346	167	179	.04	.03	.04
Foreign [a]	[d] 260,658	144,560	116,098		308	160	148	.12	.11	.13
All Nativities [a]	[e] 1,179,082	615,228	563,854		830	415	415	.07	.07	.07
Native [a]	[e] 915,366	468,888	446,478	1873	445	224	221	.05	.05	.05
Foreign [a]	[e] 263,716	146,340	117,376		385	191	194	.15	.13	.17

[a] Excluding cases where nativity of either parent is unknown.
[b] Except of counties and townships not represented by returns of births for 1870.
[c] Except of counties and townships not represented by returns of births for 1871.
[d] Except of counties and townships not represented by returns of births for 1872.
[e] Except of counties and townships not represented by returns of births for 1873.

The statistics for each year in Exhibit M show the same thing, viz.: the twin birth-rate is very much greater among foreign-born than among native-born parents; and by comparing this exhibit with Exhibit H, it will be seen that the proportion of twin births is greater among foreign-born than among the native-born parents. The apparent constant increase in the twin birth-rate from 1871 to 1873, 1870 being the same as 1871, is to be expected, because the population, June 1, 1870, is used for each year, whereas the number of actual inhabitants is believed to be increasing from year to year; and a statement in the table of an increase in the number of inhabitants, would decrease the apparent twin birth-rate. The estimated annual increase of population is 4.69 per cent.

TABLE XI.—*Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1873,—distinguishing between Parents Natives of the Same State, and those born in Different States or Countries.*

NATIVITY OF PARENTS.	PAIRS OF TWINS.									
	NUMBER.					PER CENT. OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.				
	Total.	Males.	Females.	One of Each Sex.	Unkno'n.	Total.	Males.	Females.	One of Each Sex.	Unkno'n.
All Nativities	420	122½	132	164	1½	100.00	100.00	100.00	100.00	100.00
Same American State or Foreign Country	235½	66	78	91	½	56.07	53.88	59.09	55.49	33.33
Different American State or Foreign Country	118	34	28	55	1	28.09	27.76	21.21	33.54	66.67
Foreign Father and Native Mother	28½	11½	13	4	.....	6.78	9.39	9.85	2.44	.....
Foreign Mother and Native Father	32	8	11	13	.....	7.62	6.53	8.33	7.92	.....
Unknown Mother, Father Native	1	.....	1	.....	.....	.24	.....	.76	.....	.....
Unknown Mother, Father Foreign	2	1	1	.....	.....	.48	.81	.76	.....	.....
Unknown Father, Mother Native	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown Father, Mother Foreign	2	2	.....	.....	.....	.48	1.63	.....	.....	.....
Both Unknown	1	.....	.....	1	.....	.24	.....	.....	.61	.....
Different State or Country[a]	178½	53½	52	72	1	42.50	4.37	39.39	43.90	66.67

[a] Includes "Different American State or Foreign Country," "Foreign Father and Native Mother," and "Foreign Mother and Native Father." Compare with "Same American State or Foreign Country," and with same lines in Table XV.—for still-born children.

TABLE XII.—*Exhibiting, for the State and Counties, by Sex, the Number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins Returned as having been Born in Michigan during the Year 1873. Nativity stated by Pairs of Twins.*

STATE AND COUNTIES.	Sex.	Number of Individuals.	Number of Pairs of Twins.	Nativity of Parents.—1873.[a]									
				Native.		Foreign.				Mother Unk.		Father Unk.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Father. Native.	Father. Foreign.	Mother. Native.	Mother. Foreign.	Unknown.
State	Total	840	420	100½	91	135	27	28½	32	1	2	....	2	1
	Males	409	122½	[b] 30	[b] 27	[c] 36	7	11½	[b] 8	....	1	....	[d] 2	....
	Females	428	132	31	19	[e] 47	[f] 9	[g] 13	11	1	1	....	....	....
	One each	.....	164	[b] 39	[i] 44	[j] 52	11	4	13	....	....	....	....	1
	Unknown	3	1½	[k] ½	1	.....	.....	....	....	....	....	....	....	....
Alcona	Total	2	1	.....	.....	.....	.....	....	....	....	1	....	....	....
	Males	2	1	.....	.....	.....	.....	....	....	....	1	....	....	....
Allegan	Total	24	12	33	1	6	.....	1	1	....	....	....	....	....
	Males	9	2	1	.....	1	.....	....	....	....	....	....	....	....
	Females	15	5	1	.....	[b] 3	.....	1	....	....	....	....	....	....
	One each	.....	5	1	1	2	.....	....	1	....	....	....	....	....
Alpena	Total	2	1	1	.....	.....	.....	....	....	....	....	....	....	....
	Males	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	1	1	.....	.....	.....	....	....	....	....	....	....	....
Barry	Total	16	8	.....	5	1	1	1	....	....	....	....	....	....
	Males	7	2	.....	2	.....	.....	....	....	....	....	....	....	....
	Females	9	3	.....	1	.....	1	[b] 1	....	....	....	....	....	....
	One each	.....	3	.....	2	1	.....	....	....	....	....	....	....	....
Bay	Total	22	11	.....	.....	8	1	1	1	....	....	....	....	....
	Males	12	5	.....	.....	4	1	....	....	....	....	....	....	....
	Females	10	4	.....	.....	2	.....	1	1	....	....	....	....	....
	One each	.....	2	.....	.....	2	.....	....	....	....	....	....	....	....
Benzie	Total	2	1	.....	.....	.....	.....	....	1	....	....	....	....	....
	Males	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	1	.....	.....	.....	.....	....	1	....	....	....	....	....

[a] See foot-note [a] to Table VIII. [b] 1 pair still-born. [c] 2 pairs still-born, 1 male still-born. [d] 1 pair black, illegitimate. [e] 3 pairs still-born, 1 pair illegitimate. [f] 1 pair color unknown. [g] 2 pairs still-born. [h] 2 pairs still-born, 2 females still-born. [i] 1 pair black, 1 pair "African," 1 pair still-born. [j] 2 pairs still-born, 1 female still-born. [k] ½ pair still-born, unknown sex.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.—1873.[a]										
				NATIVE.		FOREIGN.				MOTHER UNK.		FATHER UNK.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Father. Native.	Father. Foreign.	Mother. Native.	Mother. Foreign.	Unknown.
Berrien	Total	22	11	.....	7	2	2	....	....	....	....	....	....	....
	Males	16	7	.....	4	2	1	....	....	....	....	....	....	....
	Females	6	2	.....	2	.....	.....	....	....	....	....	....	....	....
	One each	.....	2	.....	1	.....	1	....	....	....	....	....	....	....
Branch	Total	20	10	5	4	1	.....	....	....	....	....	....	....	....
	Males	9	1	1	.....	.....	.....	....	....	....	....	....	....	....
	Females	11	2	1	.....	1	.....	....	....	....	....	....	....	....
	One each	.....	7	3	4	.....	.....	....	....	....	....	....	....	....
Calhoun	Total	20	10	3	5	1	.....	1	....	....	....	....	....	....
	Males	13	5	1	2	1	.....	1	....	....	....	....	....	....
	Females	7	2	2	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	3	.....	3	.....	.....	....	....	....	....	....	....	....
Cass	Total	10	5	1	4	.....	.....	....	....	....	....	....	....	....
	Males	7	2	[b]1	1	.....	.....	....	....	....	....	....	....	....
	Females	3	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	3	.....	[c]3	.....	.....	....	....	....	....	....	....	....
Charlevoix	Total	4	2	.....	.....	1	.....	....	1	....	....	....	....	....
	Males	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	3	1	.....	.....	1	.....	....	....	....	....	....	....	....
	One each	.....	1	.....	.....	.....	.....	....	1	....	....	....	....	....
Cheboygan	Total	4	2	1	.....	.....	1	....	....	....	....	....	....	....
	Males	2	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	2	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	2	1	.....	.....	1	....	....	....	....	....	....	....
Chippewa	Total	2	1	.....	.....	1	.....	....	....	....	....	....	....	....
	Males	2	1	.....	.....	1	.....	....	....	....	....	....	....	....
Clinton	Total	6	3	2	1	.....	.....	....	....	....	....	....	....	....
	Males	2	1	.....	1	.....	.....	....	....	....	....	....	....	....
	Females	4	2	2	.....	.....	.....	....	....	....	....	....	....	....
Eaton	Total	16	8	4	4	.....	.....	....	....	....	....	....	....	....
	Males	7	2	.....	[b]2	.....	.....	....	....	....	....	....	....	....
	Females	9	3	1	2	.....	.....	....	....	....	....	....	....	....
	One each	.....	3	3	.....	.....	.....	....	....	....	....	....	....	....

[a] See foot-note [a] to Table VIII. [b] 1 pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.—1873.[a]										
				NATIVE.		FOREIGN.				MOTHER UNK.		FATHER UNK.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Father.		Mother.		Unknown.
										Native.	Foreign.	Native.	Foreign.	
Genesee	Total	32	16	5	3	3	1	2	2	....	....	....	....	....
	Males	22	8	5	1	1	.....	1	....	....	....	....	....	....
	Females	10	2	.....	1	.....	.....	1	....	....	....	....	....	....
	One each	.....	6	.....	1	2	1	....	2	....	....	....	....	....
Grand Traverse	Total	2	1	.....	.....	.....	1	....	....	....	....	....	....	....
	Females	2	1	.....	.....	.....	[b]1	....	....	....	....	....	....	....
Gratiot	Total	6	3	1	1	.....	.....	....	1	....	....	....	....	....
	Males	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	5	2	1	.....	.....	.....	....	1	....	....	....	....	....
	One each	.....	1	.....	1	.....	.....	....	....	....	....	....	....	....
Hillsdale	Total	6	3	2	1	.....	.....	....	....	....	....	....	....	....
	Males	2	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	4	1	1	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	2	[c]1	1	.....	.....	....	....	....	....	....	....	....
Houghton	Total	20	10	.....	.....	10	.....	....	....	....	....	....	....	....
	Males	9	3	.....	.....	3	.....	....	....	....	....	....	....	....
	Females	11	4	.....	.....	4	.....	....	....	....	....	....	....	....
	One each	.....	3	.....	.....	3	.....	....	....	....	....	....	....	....
Huron	Total	10	5	.....	1	3	1	....	....	....	....	....	....	....
	Males	4	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	6	1	.....	.....	1	.....	....	....	....	....	....	....	....
	One each	.....	4	.....	1	2	1	....	....	....	....	....	....	....
Ingham	Total	10	5	4	.....	.....	.....	1	....	....	....	....	....	....
	Males	7	3	2	.....	.....	.....	1	....	....	....	....	....	....
	Females	3	1	1	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	1	1	.....	.....	.....	....	....	....	....	....	....	....
Ionia	Total	18	9	2	6	.....	.....	....	1	....	....	....	....	....
	Males	6	1	.....	.....	.....	.....	....	1	....	....	....	....	....
	Females	12	4	1	3	.....	.....	....	....	....	....	....	....	....
	One each	.....	4	[d]1	3	.....	.....	....	....	....	....	....	....	....
Iosco	Total	2	1	.....	.....	.....	.....	....	1	....	....	....	....	....
	Females	2	1	.....	.....	.....	.....	....	1	....	....	....	....	....

[a] See foot-note [a] to Table VIII. [b] 1 pair color unknown. [c] 1 pair still-born. [d] 1 female still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.—1873.[a]										
				NATIVE.		FOREIGN.				MOTHER UNK.		FATHER UNK.		
										Father.		Mother.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Unknown.
Isabella	Total	6	3	3	------	------	------	----	----	----	----	----	----	----
	Males	2	------	------	------	------	------	----	----	----	----	----	----	----
	Females	4	1	1	------	------	------	----	----	----	----	----	----	----
	One each	------	2	[b]2	------	------	------	----	----	----	----	----	----	----
Jackson	Total	18	9	4	2	2	1	----	----	----	----	----	----	----
	Males	9	2	1	------	------	1	----	----	----	----	----	----	----
	Females	9	2	1	------	1	------	----	----	----	----	----	----	----
	One each	------	5	2	2	1	------	----	----	----	----	----	----	----
Kalamazoo	Total	18	9	3	3	2	------	1	----	----	----	----	----	----
	Males	4	1	1	------	------	------	----	----	----	----	----	----	----
	Females	14	6	2	1	2	------	1	----	----	----	----	----	----
	One each	------	2	------	2	------	------	----	----	----	----	----	----	----
Kalkaska	Total	2	1	------	------	------	------	----	1	----	----	----	----	----
	Females	2	1	------	------	------	------	----	1	----	----	----	----	----
Kent	Total	46	23	4	6	10	2	----	1	----	----	----	----	----
	Males	27	8	2	3	1	1	----	1	----	----	----	----	----
	Females	17	3	------	------	2	1	----	----	----	----	----	----	----
	One each	------	11	2	2	7	------	----	----	----	----	----	----	----
	Unknown	2	1	------	1	------	------	----	----	----	----	----	----	----
Lake	Total	2	1	------	1	------	------	----	----	----	----	----	----	----
	Females	2	1	------	1	------	------	----	----	----	----	----	----	----
Lapeer	Total	15	7½	2½	------	2	1	1	----	----	1	----	----	----
	Males	8	2	------	------	1	------	1	----	----	----	----	----	----
	Females	7	1½	½	------	------	------	----	----	----	1	----	----	----
	One each	------	4	2	------	1	1	----	----	----	----	----	----	----
Leelanaw	Total	4	2	------	------	2	------	----	----	----	----	----	----	----
	Females	4	2	------	------	2	------	----	----	----	----	----	----	----
Lenawee	Total	22	11	3	4	4	------	----	----	----	----	----	----	----
	Males	11	4	------	3	1	------	----	----	----	----	----	----	----
	Females	10	3½	1½	------	2	------	----	----	----	----	----	----	----
	One each	------	3	1	1	[c]1	------	----	----	----	----	----	----	----
	Unknown	1	½	[d]½	------	------	------	----	----	----	----	----	----	----

[a] See foot-note [a] to Table VIII. [b] 1 female still-born. [c] 1 pair still-born. [d] ½ pair still-born, sex unknown.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.—1873.[a]										
				NATIVE.		FOREIGN.				MOTHER UNK.		FATHER UNK.		
										Father.		Mother.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Unknown.
Livingston	Total	12	6	2	2	1	.....	1	....	....	....	....	....	....
	Males	6	2	.....	1	.....	.....	1	....	....	....	....	....	....
	Females	6	2	1	1	.....	.....	....	....	....	....	....	....	....
	One each	.....	2	1	.....	1	.....	....	....	....	....	....	....	....
Macomb	Total	24	12	3	5	2	.....	1	1	....	....	....	....	....
	Males	14	6	2	2	.....	.....	1	1	....	....	....	....	....
	Females	10	4	1	2	1	.....	....	....	....	....	....	....	....
	One each	.....	2	.....	1	1	.....	....	....	....	....	....	....	....
Manistee	Total	9	4½	1	.....	1	.....	½	1	....	....	....	....	1
	Males	5	1½	.....	.....	1	.....	½	....	....	....	....	....	....
	Females	4	1	.....	.....	.....	.....	....	1	....	....	....	....	....
	One each	.....	2	1	.....	.....	.....	....	....	....	....	....	....	1
Manitou	Total	2	1	.....	.....	.....	1	....	....	....	....	....	....	....
	Females	2	1	.....	.....	.....	1	....	....	....	....	....	....	....
Marquette	Total	18	9	.....	.....	8	.....	....	1	....	....	....	....	....
	Males	8	1	.....	.....	[b]1	.....	....	....	....	....	....	....	....
	Females	10	2	.....	.....	2	.....	....	....	....	....	....	....	....
	One each	.....	6	.....	.....	5	.....	....	1	....	....	....	....	....
Mason	Total	4	2	.....	2	.....	.....	....	....	....	....	....	....	....
	Males	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	3	1	.....	1	.....	.....	....	....	....	....	....	....	....
	One each	.....	1	.....	1	.....	.....	....	....	....	....	....	....	....
Mecosta	Total	4	2	2	.....	.....	.....	....	....	....	....	....	....	....
	Males	2	1	1	.....	.....	.....	....	....	....	....	....	....	....
	Females	2	1	1	.....	.....	.....	....	....	....	....	....	....	....
Menominee	Total	4	2	.....	.....	.....	1	1	....	....	....	....	....	....
	Males	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	3	1	.....	.....	.....	.....	1	....	....	....	....	....	....
	One each	.....	1	.....	.....	.....	1	....	....	....	....	....	....	....
Midland	Total	2	1	.....	.....	.....	.....	....	1	....	....	....	....	....
	Males	2	1	.....	.....	.....	.....	....	1	....	....	....	....	....

[a] See foot-note [a] to Table VIII. [b] 1 pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.—1873.[a]										
				NATIVE.		FOREIGN.				MOTHER UNK.		FATHER UNK.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Father.		Mother.		Unknown.
										Native.	Foreign.	Native.	Foreign.	
Missaukee	Total	2	1	.....	1	.....	.....	....	....	....	....	....	....	....
	Males	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	1	.....	[b]1	.....	.....	....	....	....	....	....	....	....
Monroe	Total	20	10	2	.....	5	.....	1	2	....	....	....	....	....
	Males	12	3	.....	.....	3	.....	....	....	....	....	....	....	....
	Females	8	1	.....	.....	.....	.....	....	1	....	....	....	....	....
	One each	.....	6	2	.....	2	.....	1	1	....	....	....	....	....
Montcalm	Total	16	8	3	.....	3	.....	....	2	....	....	....	....	....
	Males	5	1	.....	.....	1	.....	....	....	....	....	....	....	....
	Females	11	4	2	.....	1	.....	....	1	....	....	....	....	....
	One each	.....	3	1	.....	1	.....	....	1	....	....	....	....	....
Muskegon	Total	4	2	.....	.....	1	.....	....	1	....	....	....	....	....
	Females	4	2	.....	.....	1	.....	....	1	....	....	....	....	....
Newaygo	Total	4	2	.....	1	.....	1	....	....	....	....	....	....	....
	Males	3	1	.....	1	.....	.....	....	....	....	....	....	....	....
	Females	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	1	.....	.....	.....	1	....	....	....	....	....	....	....
Oakland	Total	18	9	4	1	2	.....	1	....	1	....	....	....	....
	Males	6	1	1	.....	.....	.....	....	....	....	....	....	....	....
	Females	12	4	1	.....	1	.....	1	....	1	....	....	....	....
	One each	.....	4	2	1	1	.....	....	....	....	....	....	....	....
Oceana	Total	12	6	1	.....	3	1	....	1	....	....	....	....	....
	Males	8	3	1	.....	[b]1	.....	....	[b]1	....	....	....	....	....
	Females	4	1	.....	.....	1	.....	....	....	....	....	....	....	....
	One each	.....	2	.....	.....	1	1	....	....	....	....	....	....	....
Ontonagon	Total	2	1	.....	.....	.....	.....	....	1	....	....	....	....	....
	Males	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	1	.....	.....	.....	.....	....	1	....	....	....	....	....
Osceola	Total	4	2	.....	1	.....	.....	1	....	....	....	....	....	....
	Males	4	2	.....	1	.....	.....	....	....	....	....	....	....	....

[a] See foot-note [a] to Table VIII. [b] 1 pair

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.—1873.[a]									
				NATIVE.		FOREIGN.				MOTHER UNK.		FATHER UNK.	
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Father. Native.	Father. Foreign.	Mother. Native.	Mother. Foreign.	Unknown.
Ottawa	Total	18	9	1	1	2	1	4	....	....	....	....	....	...
	Males	8	3	.....	1	.....	1	1	....	....	....	....	....	....
	Females	10	4	.....	.....	1	.....	[b]3	....	....	....	....	....	....
	One each	.....	2	1	.....	[b]1	.....	....	....	....	....	....	....	....
Saginaw	Total	20	10	2	1	6	.....	....	1	....	....	....	....	....
	Males	8	3	.....	.....	3	.....	....	....	....	....	....	....	....
	Females	12	5	1	1	2	.....	....	1	....	....	....	....	....
	One each	.....	2	1	.....	1	.....	....	....	....	....	....	....	....
Sanilac	Total	12	6	.....	.....	1	.....	3	2	....	....	....	....	....
	Males	6	2	.....	.....	.....	.....	1	1	....	....	....	....	....
	Females	6	2	.....	.....	[c]1	.....	1	....	....	....	....	....	....
	One each	.....	2	.....	.....	.....	.....	1	1	....	....	....	....	....
Shiawassee	Total	18	9	.....	4	3	2	....	....	....	....	....	....	....
	Males	6	1	.....	.....	.....	1	....	....	....	....	....	....	....
	Females	12	4	.....	2	[b]2	.....	....	....	....	....	....	....	....
	One each	.....	4	.....	2	1	1	....	....	....	....	....	....	....
St. Clair	Total	22	11	1	1	8	.....	....	1	....	....	....	....	....
	Males	8	2	.....	.....	2	.....	....	....	....	....	....	....	....
	Females	14	5	1	.....	4	.....	....	....	....	....	....	....	....
	One each	.....	4	.....	1	2	.....	....	1	....	....	....	....	....
St. Joseph	Total	14	7	4	2	.....	1	....	....	....	....	....	....	....
	Males	5	.....	.....	.....	.....	.....	....	....	....	....	....	....	....
	Females	9	2	2	.....	.....	.....	....	....	....	....	....	....	....
	One each	.....	5	2	2	.....	1	....	....	....	....	....	....	....
Tuscola	Total	12	6	2	.....	1	.....	....	3	....	....	....	....	....
	Males	4	1	.....	.....	.....	.....	....	1	....	....	....	....	....
	Females	8	3	1	.....	[b]1	.....	....	1	....	....	....	....	....
	One each	.....	2	1	.....	.....	.....	....	1	....	....	....	....	....
Van Buren	Total	28	14	8	5	.....	.....	1	....	....	....	....	....	....
	Males	17	6	4	2	.....	.....	....	....	....	....	....	....	....
	Females	11	3	1	1	.....	.....	1	....	....	....	....	....	....
	One each	.....	5	3	2	.....	.....	....	....	....	....	....	....	....

[a] See foot-note [a] to Table VIII. [b] 1 pair still-born. [c] 1 pair illegitimate.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	Sex.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.—1873.[a]										
				NATIVE.		FOREIGN.				MOTHER UNK.		FATHER UNK.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Father. Native.	Father. Foreign.	Mother. Native.	Mother. Foreign.	Unknown.
Washtenaw	Total	26	13	2	5	4	2	....	....	....	....	....	....	....
	Males	15	4	1	.....	[b]3	.....	....	....	....	....	....	....	....
	Females	11	2	.....	.....	.....	2		....	....	....	....	....	....
	One each	.....	7	1	[c]5	1	.....		....	....	....	....	....	....
Wayne	Total	98	49	9	.....	25	5	5	3	....		....	2	....
	Males	50	16	5	.....	5	1	2	1	....		....	[d]2	....
	Females	48	15	2	.....	8	3	1	1	....		....	....	....
	One each	.....	18	[e]2	.....	[f]12	1	2	1	....		....	....	....

[a] See foot-note [a] to Table VIII. [b] 1 male still-born. [c] 1 pair "African." [d] 1 pair black, illegitimate. [e] 1 pair still-born. [f] 1 female still-born.

TABLE XIII.—*Occupations of Futhers of Twins Born in Michigan during the Year 1873, according to the Returns.*

OCCUPATIONS.	No. of Each.	OCCUPATIONS.	No. of Each.
All Occupations	421	Carpenters and Joiners	3
		Choppers	2
Agents	1	City Justices	1
Bakers	3	Clerks	3
Bankers	1	Clergymen	1
Blacksmiths	9	Coopers	5
Boot and Shoe Dealers	1	Conductors on R. R.	1
Brass Moulders	1	Day Laborers	1
Brass Workers	1	Dock Agents	1
Brick-makers	1	Drovers	1
Brick Masons	1	Druggists	3
Butchers	1	Engineers	5
Cabinet-makers	1	Engineers in Mill	1
Capitalists	1	Farmers	190
Carpenters	19	Farm Laborers	

TABLE XIII.—CONTINUED.—*Occupations of Fathers of Twins.*

OCCUPATIONS.	No. of Each.	OCCUPATIONS.	No. of Each.
Farmer and Lumberman	1	Pattern-makers	1
"Farmer and Tobacco Man"	1	Physicians	1
Foremen	1	Printers	1
Founder	1	Produce Dealers	1
Gardeners	2	R. R. Agents	1
Glaziers	1	R. R. Employes	2
Grocers	2	R. R. Laborers	2
Harness-makers	1	Sailors	3
Hemp-makers	1	Saloon-keepers	4
Horticulturists	1	Sash, Door, and Blind Manufacturers	1
Hotel-keepers	1	Sawyers	2
Iron Moulders	1	Shingle Cutters	1
Laborers	66	Shoe-makers	1
Lawyers	1	Stone Cutters	2
Lumbermen	1	Stone Masons	1
Machinists	4	Tailors	2
Masons	7	Teamsters	6
Mechanics	2	Telegraph Operators	1
Merchants	7	Tinners and Jewelers	1
Millers	2	Traveling Agents	1
Miners	4	Unknown	3
Music Dealers	1	Wood Merchants	1
Painters	2	Wooden Bowl Manufacturers	1

The returns of still-births are as yet very incomplete. By Exhibit 6 it is seen that no uniformity prevails in the returns of still-births throughout the years, though the numbers are increasing very rapidly.

The still-births in the returns of births should correspond to those in the returns of deaths. In the following Reports they will probably be made to correspond, by working up the tables from the returns of deaths as well as of births, and then more reliable inferences may be drawn from their statistics, which, however, have some value even in their present incomplete condition. Exhibit 7 is of considerable interest as showing the relative proportion of still-births returned as having occurred among native and foreign-born mothers. Table XIV. exhibits the number of still-births by months by sex of children, and Table XV., page 59, analyzes them with reference to intermarriage of persons from different States or Countries. Nearly one-half of all the still-born children were returned as having been born of parents from different States or Countries; yet this is not a much larger proportion than is shown for twin children, in Table XI., page 47.

EXHIBIT 6.—*The Relation of Still-born to all Children Returned as having been Born in Michigan during the several Years 1868 to 1873, inclusive, and of the Mothers of Still-born to all Mothers Returned as having Borne Children during each of the Years 1871, 1872, and 1873.*

CHILDREN AND MOTHERS.	TOTAL BIRTHS AND STILL-BIRTHS.					
	1868.	1869.	1870.	1871.	1872.	1873.
All Children born	19,171	27,093	26,663	25,992	27,993	34,608
Still-born Children [a]	46	141	74	88	301	348
Per Cent. of Still-born to Total	.23	.52	.28	.34	1.08	1.01
All Mothers	.....	.....	.....	25,688	27,641	34,180
Mothers of Still-born Children [a]	.....	.....	.....	86	293	333
Per Cent. of Mothers of Still-born Children to all Mothers	.....	.....	.....	.33	1.06	.97

[a] As per returns of births.

EXHIBIT 7.—*By Nativity and Color, the Number and Proportion of Mothers having Still-births in Michigan during each of the Years 1871, 1872, and 1873, according to the Returns.*

NATIVITY AND COLOR OF MOTHERS.	1871.			1872.			1873.		
	Mothers havi'g Still-births.	Whole No. of Moth'rs, including those of Still-births.	Per Ct. of Mothers of Still-births to all Moth'rs.	Mothers havi'g Still-births.	Whole No. of Moth'rs, including those of Still-births.	Per Ct. of Mothers of Still-births to all Moth'rs.	Mothers havi'g Still-births.	Whole No. of Moth'rs, including those of Still-births.	Per Ct. of Mothers of Still-births to all Moth'rs.
Mothers of all colors and all nativities	86	25,688	.33	293	27,641	1.06	333	34,180	.97
All native mothers	40	13,496	.30	146	15,459	.94	192	19,546	.98
All foreign mothers	34	10,141	.34	120	11,015	1.09	135	13,833	.98
Mothers of unknown nativities	12	2,051	.59	27	1,167	2.31	6	802	.75
White	83	25,263	.33	286	27,188	1.05	317	33,424	.95
Black	1	185	.54	[a] 2	121	1.65	2	140	1.43
Mulatto	1	31	3.23	.....	59	.....	3	103	2.91
Indian	.....	132	.....	.....	169	.....	.....	161	.....
Unknown	1	77	1.30	5	104	4.81	11	322	3.13
Black and Mulatto	2	216	.93	2	180	1.11	5	243	

[a] 1 "African."

TABLE XIV.—*Exhibiting, by Sex, the Parent-Nativity, and by Sex and Months, the Number of Still-births in Michigan during the Year 1873, according to the Returns.*

SEX.	YEAR, 1873.	MONTHS, 1873												NATIVITY OF PARENTS.													
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	PARENTS BORN IN MICHIGAN.		NATIVE.			FOREIGN.			Father and Foreign Mother.	Mother and Foreign Father.	MOTHER UNK.		FATHER UNK.		
															Father.	Mother.	Total.	Same State.	Different States.	Total.	Same Country.	Different Countries.			Father.		Mother.		Both Unknown.
																									Native.	Foreign.	Native.	Foreign.	
Total	[a] 318	12	30	20	24	33	24	30	33	26	36	39	38	3	69	96	157	85	72	117	97	20	40	24	2	1	2	2	3
Males	[b] 206	7	15	14	14	21	11	17	25	13	25	15	29	----	42	49	95	53	42	68	55	13	20	16	1	1	2	1	2
Females	114	4	13	5	8	11	11	11	4	8	11	19	7	2	21	36	51	28	23	38	34	4	15	8	----	----	----	1	1
Unknown	[c] 28	1	2	1	2	1	2	2	4	5	----	5	2	1	6	11	11	4	7	11	8	3	5	----	1	----	----	----	----

[a] Includes 5½ pairs male twins, 5 pairs female twins, 5 pairs twins one of each sex, 3 female twins, and ½ pair sex unknown.
[b] Includes 3 Mulatto, 2 Black, and 2 color unknown.
[c] Includes 9 color unknown,

TABLE XV.—*Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Returned as having been Born in Michigan during the Year 1873, of Parents who were Natives of the Same, and of Different States or Countries.*

NATIVITY OF PARENTS.	STILL-BORN CHILDREN.							
	NUMBER.				PER CT. OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.			
	Total.	Males.	Females.	Unkno'n.	Total.	Males.	Females.	Unkno'n.
All Nativities	348	206	114	28	100.00	100.00	100.00	100.00
Same American State or Foreign Country	182	108	62	12	52.30	52.43	54.39	42.86
Different American State or Foreign Country	92	55	27	10	26.44	26.70	23.68	35.71
Foreign Father and Native Mother	40	20	15	5	11.49	9.71	13.16	17.86
Foreign Mother and Native Father	24	16	8	.....	6.90	7.77	7.01	.....
Unknown Mother, Father Native	2	1	.....	1	.57	.49	.....	3.57
Unknown Mother, Father Foreign	1	1	.....	.....	.29	.48	.....	.....
Unknown Father, Mother Native	2	2	.....	.....	.57	.97	.....	.....
Unknown Father, Mother Foreign	2	1	1	.....	.57	.49	.88	.....
Both Unknown	3	2	1	.....	.86	.97	.88	.....
Different State or Country	156	91	50	15	[a]44.83	44.17	43.86	53.57
Native	157	95	51	11	45.11	46.12	44.74	39.29
Foreign	117	68	38	11	33.62	33.01	33.33	39.29

[a] Compare with same statement for twins in Table XI., page 47. (In Table XI., on the line "Different State or Country," in the column for "Males," by an error in placing a decimal point, the per cent. appears to be "4.37"; it should read 43.67.)

Excepting for the year 1869, the per cent. of illegitimate births to all children born has, according to the returns, been increasing every year. The number of illegitimate children has rapidly increased, the numbers being: in 1868, 104; in 1869, 137; in 1870, 155; in 1871, 183; in 1872, 199; in 1873, 316. It is difficult to estimate how much of this apparent increase is due to increased completeness in the returns.

Exhibit 9 is very important in its showing, as it enables us to study the relative source of illegitimate children, as regards nativity of mothers. In 1871 and 1873 the larger proportion of the illegitimate children were born of foreign-born mothers. In 1872 the excess is of native-born mothers, but the per cent. of foreign-born mothers has been diminished, and the per cent. of mothers of unknown nativity is greatly increased. It is probable that if the nativity of these could be ascertained it would swell the per cent. of foreign-born.

The per cent. of mothers of illegitimates to all mothers is much less among the white than among any other race, and is smaller than the average for all races. In 1871 and in 1873 the largest per cent. is among the Mulatto, and in 1873, among the Indians. The proportion of illegitimate births [illegible] the colored races is about six or seven times as large as is reported inhabitants.

EXHIBIT 8.—*The Relation of the Illegitimate Children to All Children Returned as having been Born during the several Years 1868 to 1873, inclusive, and of Mothers of Illegitimates to All Mothers Returned as having Borne Children in Michigan during the Years 1871, 1872, and 1873.*

CHILDREN AND MOTHERS.	TOTAL AND ILLEGITIMATE CHILDREN.					
	1868.	1869.	1870.	1871.	1872.	1873.
All Children born	19,171	27,603	26,663	25,992	27,993	34,698
Illegitimate Children	104	137	155	183	199	316
Per Cent. of Illegitimate to Total	.54	.51	.58	.70	.71	.91
All Mothers	----------	----------	----------	25,688	27,641	34,180
Mothers of Illegitimate Children	----------	----------	----------	181	195	314
Per Cent. of Mothers of Illegitimates to all Mothers	----------	----------	----------	.70	.71	.92

EXHIBIT 9.—*By Nativity and Color, the Number and Proportion of Mothers of Illegitimate Children Returned as having been Born in Michigan during the Years 1871, 1872, and 1873.*

NATIVITY AND COLOR OF MOTHERS.	1871.			1872.			1873.		
	Mothers of Illegitimates.	All Moth'rs, including those of Illegitimates.	Per Ct. of Mothers of Illegitim'tes to all Moth'rs.	Mothers of Illegitimates.	All Moth'rs, including those of Illegitimates.	Per Ct. of Mothers of Illegitim'tes to all Moth'rs.	Mothers of Illegitimates.	All Moth'rs, including those of Illegitimates.	Per Ct. of Mothers of Illegitim'tes to all Moth'rs.
Mothers of all colors and all nativities	181	25,688	.70	195	27,641	.71	314	34,180	.92
All native Mothers	75	13,496	.56	90	15,459	.64	128	19,546	.65
All foreign Mothers	73	10,141	.72	64	11,015	.58	93	13,832	.67
Mothers of unknown nativities	33	2,051	1.61	32	1,167	2.74	93	802	1.16
White	152	25,263	.60	176	27,188	.65	277	33,424	.82
Black	[a] 9	185	4.86	[b] 2	121	1.65	[c] 7	140	5.00
Mulatto	2	31	6.45	6	59	10.17	5	103	4.42
Indian	[d] 8	132	6.06	[e] 9	169	5.33	[f] 11	161	6.83
Unknown	10	77	12.99	2	104	1.92	14	352	3.98
Black and Mulatto	11	216	5.09	8	180	4.44	12	243	4.94

[a] Includes 1 "African," 4 "Colored," and 1 "Negro." [b] 1 "Colored." [c] 1 Black and Indian, 1 "African," and 1 "Colored." [d] 1 "¼ White," and 2 "½ White." [e] 2 "Copper-colored," and 1 "Half-breed." [f] 2 "Half Indian," and 1 White and Indian.

TABLE XVI.—*Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan, during the Year ending December 31, 1873, according to the Returns.*

SEX.	Year, 1873.	Months, 1873.												Nativity of Mothers.							Nativity of Fathers.						
														Native.			Foreign.				Native.			Foreign.			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Total.	Born in Michigan.	Born in Other States.	Total.	Born in Canada.	Born in Other Countries.	Unknown.	Total.	Born in Michigan.	Born in Other States.	Total.	Born in Canada.	Born in Other Countries.	Unknown.
Total	316	12	15	29	23	18	32	24	40	35	33	20	32	3	128	85	43	95	39	56	93	43	20	23	23	7	16	250
Males	[a] 161	6	11	7	12	7	19	16	21	17	15	10	18	2	70	48	22	43	18	25	[b] 48	23	8	15	9	3	6	129
Females	[c] 139	6	4	17	7	9	12	6	19	17	18	10	13	1	56	37	19	39	15	[d] 24	[e] 44	20	12	8	13	4	9	106
Unknown	[f] 16	....	....	5	4	2	1	2	....	1	....	....	1	....	2	....	2	13	6	7	1	....	....	....	1	....	1	15

[a] Includes 3 Mulatto, 2 "Half Indian," 3 Indian, 4 Black (1 pair twins), 1 Black and Indian, 1 "African," and 1 "Colored." [b] 14 "America." [c] Includes 2 Mulatto, 1 White and Indian, 5 Indian, 1 Black, and 1 pair Twins. [d] 1 "Atlantic Ocean." [e] 11 "America." [f] 14 Color unknown.

Table XVI. permits of a comparison of the illegitimate with the total births by months as shown in Table IV.

TABLE XVII.—*Exhibiting, by Color and by Sex, the Population, June 1, 1870, the Number of Illegitimate Children Born in Michigan during the Year 1873, the Per Cent. of such Children to Inhabitants, the Per Cent. of each Sex to Total Illegitimate Children of Both Sexes, and the Number of Inhabitants to each Illegitimate Child Born.*

COLOR OR RACE.	SEX.	Population June 1, 1870, Represented by Births in 1873.	Total Illegitimate Births.	Per Cent. of Births to Population.	Per Cent. of each Sex to Total of both Sexes.	Number of Inhabitants to one Illegitimate Child of the same Color.
All Colors	Total	1,179,082	316	.026	----------	3,731
	Males	615,228	161	.026	53.67	----------
	Females	563,854	139	.025	46.33	----------
	Unknown	----------	16	----------	----------	----------
White	Total	1,163,290	278	.024	----------	4,184
	Males	607,026	146	.024	52.90	----------
	Females	556,254	130	.023	47.10	----------
	Unknown	----------	2	----------	----------	----------
Black	Total	5,512	8	.145	----------	689
	Males	3,043	[a] 7	.230	87.50	----------
	Females	2,469	1	.041	12.50	----------
Mulatto	Total	6,223	5	.080	----------	1,245
	Males	3,140	3	.096	60.00	----------
	Females	3,083	2	.065	40.00	----------
Indian	Total	4,067	11	.270	----------	370
	Males	2,019	[b] 5	.248	45.45	----------
	Females	2,048	[c] 6	.292	54.55	----------
Unknown Color	Total	----------	14	----------	----------	----------
	Males	----------	----------	----------	----------	----------
	Females	----------	----------	----------	----------	----------
	Unknown	----------	14	----------	----------	----------
Black and Mulatto	Total	11,735	13	.111	----------	903
	Males	6,183	10	.162	76.92	----------
	Females	5,552	3	.054	23.08	----------

[a] Includes 1 Black and Indian, 1 "African," and 1 "Colored." [b] Includes 2 Half Indian. [c] Includes 1 White and Indian.

Table XVII. shows the illegitimate birth-rate among the White and the Mulatto to be smaller than the average for the State, while among the Black and the Indian it is very much greater. The greatest illegitimate birth-rate and the largest proportion of female children are shown for the Indians. For the other races the excess is of male children, which is unusual.

TABLE XVIII.—*Exhibiting the Number of Males to 100 Females, and by Sex the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign Parents, in Michigan, during the Year 1873, according to the Returns.*

NATIVITY OF PARENTS.		ILLEGITIMATE CHILDREN.								
		No. of Males to 100 Females.	NUMBER.				PER CENT. OF TOTAL.			
			Total.	Males.	Females.	Unkno'n.	Total.	Males.	Females.	Unkno'n.
All Nativities		116	316	161	139	16	100.00	100.00	100.00	100.00
Mothers	Native	125	128	70	56	2	40.50	43.48	40.29	12.50
	Foreign	113	95	43	39	13	30.06	26.71	28.05	81.25
	Unknown	107	93	48	44	1	29.43	29.81	31.66	6.25
Fathers	Native	115	43	23	20	.....	13.61	14.29	14.39	.....
	Foreign	69	23	9	13	1	7.28	5.59	9.35	6.25
	Unknown	122	250	129	106	15	79.11	80.12	76.26	93.75

Table XVIII. shows, as might be expected, that concerning illegitimate children the nativity of the fathers is not generally returned, while that of the mothers is generally stated, though not as completely returned as for the total births. The nativity of 29.43 per cent. of the mothers and 79.11 per cent. of the fathers is not reported. This table may be compared with Table VII. and Exhibit F, pages 32 and 33, which show the parent-nativity of all births in 1873 and in preceding years; also with Table X., relating to twins.

TABLE XIX.—*Exhibiting the Details concerning Triplet and Quartette Children Returned as having been Born in Michigan during the Year 1873.*

COUNTIES, AND NUMBER OF CHILDREN AT A BIRTH.	CHILDREN.				PARENTS.		
	Month of Birth.	Color.	SEX.		Birthplace of Father.	Birthplace of Mother.	Occupation of Father.
			Males.	Females.			
TRIPLETS.							
Menominee	May	White	3	.....	Michigan	Michigan	Sailor.
Montcalm	July	White	1	2	Pennsylvania	Ohio	Farmer.
Washtenaw	August	White	3	.....	Ireland	Ireland	Laborer.
QUARTETTES.							
Alpena	November	White	2	2	Canada	Canada	Carpenter.

The number of sets of Triplets returned as having been born in 1873 was 3; in 1872, 5; in 1871, 3; in 1870, 4.

For 1873 there was returned a set of Quartettes, as t

TABLE XX.—*Exhibiting, for the State and Counties, the Number of Females aged 16 to 45 in Michigan, June 1, 1870, the same represented by Returns of Births in 1873, the Number of such Females to one Child, to one Illegitimate Child, and to one Pair of Twins, Born in Michigan, during the Year 1873; the Number of Males to 100 Females among Twins; and the Number of Illegitimate and of Still-born Children Born during the Year 1873.*

STATE AND COUNTIES.	Female Population Aged 16 to 45, June 1, 1870.[a]	Female Population Aged 16 to 45, June 1, 1870, Represented by Births in 1873.	Per Ct. of Births in 1873 to Females Aged 16 to 45, June 1, 1870.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Child Born in 1873.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Illegitimate Child Born in 1873.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Pair Twins Born in 1873.[b]	Twin Children,—No. of Males to 100 Females.	No. of Illegitimate Children Born in 1873.	No. of Still-births in 1873.
State	254,264	253,327	13.66	7.32	802	603	96	316	348
Alcona	[c] 157	157	25.48	3.92	.....	157	.....	.....	.....
Allegan	6,681	6,681	11.91	8.39	6,681	557	60	1	3
Alpena	548	524	30.73	3.25	.....	524	100	.....	1
Antrim	387	387	13.95	7.17	.....	.....	.....	.....	1
Barry	4,722	4,722	12.41	8.06	4,722	590	78	1	8
Bay	3,306	3,306	24.14	4.14	.....	301	120	.....	7
Benzie	452	452	17.92	5.58	.....	452	100	.....	.....
Berrien	7,591	7,591	10.82	9.25	1,898	690	267	4	16
Branch	5,941	5,941	9.38	10.67	1,188	594	82	5	5
Calhoun	8,377	8,377	8.77	11.40	1,396	838	186	6	11
Cass	4,415	4,415	10.71	9.33	4,415	883	233	1	7
Charlevoix	318	304	20.39	4.90	.....	152	33	.....	.....
Cheboygan	402	402	26.37	3.79	402	201	100	1	.....
Chippewa	330	286	13.98	7.15	.....	286	[d]	.....	.....
Clare	37	37	56.76	1.76	.....	[e]	.....	.....	.....
Clinton	4,860	4,860	13.40	7.47	1,215	1,620	50	4	10
Delta	[f] 423	.....	.....	.....	.....	.....	.....	.....	.....
Eaton	5,524	5,524	11.86	8.43	921	691	78	6	4
Emmet	[e] 247	110	37.27	2.68	3,667	[e]	.....	3	.....
Genesee	7,554	7,554	9.74	10.26	1,511	472	220	5	3
Grand Traverse	881	881	13.96	7.16	.....	881	[g]	.....	.....
Gratiot	2,373	2,373	18.12	5.52	791	791	20	3	1
Hillsdale	7,016	7,016	8.42	11.87	.....	2,339	50	.....	7
Houghton	2,514	2,514	24.34	4.11	629	251	82	4	1
Huron	1,593	1,593	27.43	3.65	398	319	67	4	5
Ingham	5,606	5,606	11.67	8.57	1,869	1,121	233	3	2

[a] Law of Michigan limits age of marriage of females to not less than that of sixteen years. [b] Only population of counties and townships represented by births in 1873 is used in computing statements in this column. [c] Includes population of unorganized county of Oscoda. [d] No females. [e] No twin births returned. [f] No returns. [g] No males.

TABLE XX.—CONTINUED.

COUNTIES.	Female Population, Aged 16 to 45, June 1, 1870.[a]	Female Population Aged 16 to 45, June 1, 1870, represented by Births in 1873.	Per Ct. of Births in 1873 to Females Aged 16 to 45, June 1, 1870.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Child Born in 1873.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Illegitimate Child Born in 1873.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Pair Twins Born in 1873.[b]	Twin Children,—No. of Males to 100 Females.	No. of Illegitimate Children Born in 1873.	No. of Still-births in 1873.
Ionia	6,087	6,087	10.84	9.22	2,029	676	50	3	10
Iosco	[c] 640	640	20.94	4.78	.....	640	[d]	.....	2
Isabella	809	784	20.54	4.87	784	261	50	1	1
Jackson	8,025	8,025	11.10	9.01	2,006	892	100	4	9
Kalamazoo	7,304	7,304	10.02	9.98	1,461	812	29	5	12
Kalkaska	71	71	59.15	1.69	.....	71	[d]	.....	.....
Kent	11,107	11,107	14.79	6.76	3,702	483	159	3	14
Keweenaw	[c] 727	727	25.17	3.97	364	[e]	.....	2	1
Lake	108	108	55.56	1.80	.....	108	[d]	.....	2
Lapeer	4,456	4,456	14.70	6.80	2,228	594	114	2	4
Leelanaw	885	885	17.85	5.60	295	443	[d]	3	.....
Lenawee	10,458	10,458	9.61	10.41	2,092	951	110	5	7
Livingston	4,094	4,094	11.63	8.60	2,047	682	100	2	5
Mackinac	[c] 334	334	14.67	6.82	.....	[e]	.....	.....	.....
Macomb	5,664	5,664	14.02	7.13	5,664	472	140	1	14
Manistee	1,251	1,178	28.01	3.57	1,178	262	125	1	.....
Manitou	135	124	19.35	5.17	.....	124	[d]	.....	.....
Marquette	2,695	2,695	24.97	4.00	2,695	299	80	1	5
Mason	653	595	23.03	4.34	595	298	33	1	.....
Mecosta	1,223	1,223	20.03	4.99	.....	612	100	.....	.....
Menominee	319	319	40.75	2.45	106	160	33	3	3
Midland	681	553	17.54	5.70	.....	553	[f]	.....	.....
Missaukee	20	20	95.00	1.05	20	20	100	1	3
Monroe	5,594	5,594	15.64	6.39	799	559	150	7	6
Montcalm	2,890	2,890	17.75	5.63	1,445	361	45	2	1
Muskegon	3,176	3,176	10.69	5.90	3,176	1,588	[d]	1	3
Newaygo	1,463	1,463	15.65	6.39	.....	732	300	.....	.....
Oakland	9,158	9,158	7.84	12.75	3,053	1,018	50	3	1
Oceana	1,516	1,516	17.28	5.79	505	253	200	3	11
Ontonagon	491	491	15.07	6.64	.....	491	100	.....	.....
Osceola	408	408	50.00	2.00	204	204	.....	2	4

[a] Law of Michigan limits age of marriage of females to not less than that of sixteen years. [b] population of counties and townships represented by births in 1873 is used in computing [illegible] in this column. [c] Includes population of unorganized county of Ogemaw. [d] No males. births returned. [e] No females.

TABLE XX.—CONTINUED.

COUNTIES.	Female Population Aged 16 to 45, June 1, 1870.[a]	Female Population Aged 16 to 45, June 1, 1870, represented by Births in 1873.	Per Ct. of Births in 1873 to Females Aged 16 to 45, June 1, 1870.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Child Born in 1873.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Illegitimate Child Born in 1873.[b]	No. of Females Aged 16 to 45, June 1, 1870, to one Pair Twins Born in 1873.[b]	Twin Children,—No. of Males to 100 Females.	No. of Illegitimate Children Born in 1873.	No. of Still-births in 1873.
Ottawa	5,128	5,128	18.88	5.30	2,564	570	80	2	18
Presque Isle[c]	56	56	12.50	8.00	.....	c	.....	.....	.....
Saginaw	8,208	8,208	18.06	5.54	1,173	821	67	7	19
Sanilac	2,690	2,690	19.85	5.04	673	448	100	4	3
Schoolcraft[c]	129	129	16.28	6.14	.....	c	.....	.....	1
Shiawassee	4,545	4,545	11.38	8.79	1,515	505	50	3	7
St. Clair	7,407	7,407	15.26	6.55	823	673	57	9	21
St. Joseph	5,797	5,797	8.49	11.78	1,932	828	56	3	3
Tuscola	2,734	2,734	18.65	5.36	2,734	456	50	1	13
Van Buren	6,306	6,306	9.99	10.01	2,102	450	155	3	5
Washtenaw	9,221	9,221	9.53	10.49	1,025	709	136	9	8
Wayne	27,202	27,202	16.06	623	162	555	104	168	41
Wexford[c]	144	144	68.06	1.47	.....	c	.....	.....	.....

[a] Law of Michigan limits age of marriage of females to not less than that of sixteen years. [b] Only population of counties and townships represented by births in 1873 is used in computing statements for this column. [c] No twin births returned.

EXHIBIT 10.—*Counties and Townships in which it is Reported that there were no Births in 1873.*

COUNTIES.	TOWNSHIPS.	POPULATION, JUNE 1, 1870.		
		Total.	Males.	Females.
Total	.....	429	245	184
Clare	Sheridan	87	50	37
Iosco	Plainfield	122	70	52
Lake	Elk[a]	.....	.....	.....
	Webber[a]	.....	.....	.....
Missaukee	West Branch[a]	.....	.....	.....
Sanilac	Moore	113	68	45
Wexford	Springville	107	57	50

[a] Organized since Census was taken.

TABLE XXI.—*Exhibiting the Counties and Townships from which no Returns of Births in 1873 were received, the Number of Females aged 16 to 45, and, by Sex and by Color, the Number of Inhabitants, June 1, 1870, in such Counties and Townships.*

STATE AND COUNTIES.	TOWNSHIPS FROM WHICH NO RETURNS WERE RECEIVED.	POPULATION, JUNE 1, 1870.				WHITE.			BLACK.			INDIAN.		
		Total.	Males.	Females.	Females aged 16 to 45.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
State		5,200	3,023	2,177	937	4,471	2,650	1,821	9	4	5	720	369	351
Alpena	Ossineke	144	91	53	24	144	91	53	....	....	....	....	....	....
	Wilson[a]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....
Antrim	Otsego Lake[a]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....
Charlevoix	Boyne Valley[a]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....
	Evangeline	90	53	37	14	90	53	37	....	....	....	....	....	....
Chippewa	Sugar Island	238	133	105	44	150	82	68	....	....	....	88	51	37
Delta	All Townships	2,441	1,486	955	423	2,422	1,480	942	....	....	....	19	6	13
Emmet	La Croix	663	345	318	137	62	40	22	....	....	....	601	305	296
Iosco	Edwards[a]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....
	Ogemaw[a]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....
Isabella	Sherman	134	83	51	25	134	83	51	....	....	....	....	....	....
Keweenaw	Isle Royal[b]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....
Manistee	Filer	376	211	165	73	376	211	165	....	....	....	....	....	....
Manitou	South Manitou	76	38	38	11	76	38	38	....	....	....	....	....	....
Marquette	Forsyth[a]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....
Mason	Victory	314	179	135	58	293	168	125	9	4	5	12	7	5
Midland	Ingersoll	402	223	179	75	402	223	179	....	....	....	....	....	....
	Lincoln	322	181	141	53	322	181	141	....	....	....	....	....	....
	Mt. Hayley[a]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....
Presque Isle	Presque Isle[a]	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....

[a] Organized since Census was taken. [b] No population reported in Census.

Table XX. gives data for many interesting studies. It may be profitable to study the third column of this table in connection with the first column in Table VI., with a view of learning the evidences as to proportion of male children in counties where the birth-rate is greater or less than the average when computed to the women at child-bearing ages, as is done in Table XX. Tested in this manner it will be found that the proposition that *more* than the average birth-rate is attended with *less* than the average proportion of male children, and *vice versa*, does not hold true, the number of exceptions being thirty-seven out of the sixty-nine counties represented. This mis[illegible] a if we could study the subject in connection with th[illegible] 1870, as suggested in the comments on Ta[illegible]

Exhibit 10 and Table XXI. show a marked diminution, from year to year, in the number of townships in which it is reported that no births occurred, and in the number of townships the officers of which neglect to make returns. In 1871, the delinquent townships represent a population of 37,048; in 1872, a population of 14,999; in 1873, of 5,200.

SEX OF CHILDREN.

The tables and exhibits on this subject are continued much the same in this as in previous Reports. Of the exhibits, Exhibit P is of most practical use for the purpose of comparing the births by months and by sex, as in that exhibit the births returned have been corrected for omissions in such a way as to exhibit the births which probably occurred, and in the proper proportion by months, so far as can be estimated from the data available.

EXHIBIT N.—*Births Returned as having occurred in Michigan during the Year 1873, by Sex, and by Months Equalized to 30.44 days each.*

SEX.	YEAR, 1873.	MONTHS OF BIRTH, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total.....	34,608	2,074	2,445	2,796	2,751	2,744	2,637	2,863	3,282	3,486	3,108	3,061	3,291	70
Males.....	17,908	1,062	1,270	1,443	1,421	1,422	1,335	1,506	1,714	1,804	1,574	1,594	1,735	28
Females....	16,632	1,010	1,168	1,344	1,323	1,316	1,297	1,351	1,564	1,673	1,533	1,461	1,553	39
Unknown...	68	2	7	9	7	6	5	6	4	9	1	6	3	3

EXHIBIT O.—*Births Returned as having occurred in Michigan during the Year 1873, by Sex and by Months, Equalized to 30.44 days each, and by Months the Excess of Males over Females. Unknown sex and unknown months excluded.*

SEX.	YEAR, 1873.	MONTHS OF BIRTH, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes.....	* 34,473	2,072	2,438	2,787	2,744	2,738	2,632	2,857	3,278	3,477	3,107	3,055	3,268
Males.....	17,880	1,062	1,270	1,443	1,421	1,422	1,335	1,506	1,714	1,804	1,574	1,594	1,735
Females.....	16,593	1,010	1,168	1,344	1,323	1,316	1,297	1,351	1,564	1,673	1,533	1,461	1,533
Excess of Males over Females.	1,287	52	102	99	98	106	38	155	150	131	41	133	132

* This table excludes 135 births, in unknown month and of unknown sex.

EXHIBIT P.—*Births Returned as having occurred in Michigan during the Year 1873 by Sex and by Months, Corrected for Omissions in Enumerating, Equalized for Increase of Population during the Year covered by the Returns, and as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 days each.*

SEX.	YEAR, 1873.	MONTHS OF BIRTH, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes	45,551	3,158	3,630	4,051	3,894	3,792	3,555	3,760	4,205	4,343	3,776	3,611	3,776
Males	23,622	1,618	1,892	2,097	2,016	1,970	1,804	1,982	2,200	2,253	1,913	1,884	1,993
Females	21,929	1,540	1,738	1,954	1,878	1,822	1,751	1,778	2,005	2,090	1,863	1,727	1,783

TABLE XXII.—*Exhibiting by Months the Relation between the Total Number of Conceptions during certain Months of the Years 1872–3, and the proportion of each Sex Conceived during the same time and Born during the Year ending December 31, 1873, According to the Returns.*

CONCEPTIONS FOR BIRTHS IN 1873.[a]

	Months of 1872 and 1873 of Conceptions of Births in 1873, in order by Number, the least Number first.	Total No. of Conceptions.[b]		Months of 1872 and 1873, in order by Number of Males to 100 Females, the greatest Number first.	No. of Males to 100 Females.
Less than the Average number of Conceptions.	April	2,072	More than the Average proportion of Males.	March, 1873[c]	112
	May	2,438		October	111
	September	2,632		November[c]	110
	July	2,744		May	109
	August	2,738		February, 1873[c]	109
	June	2,787		December[c]	108
	October	2,857		August	108
Average		2,873			108
More than the Average number of Conceptions.	February, 1873	3,055	Less than the Average proportion of Males.	June[c]	107
	January, 1873	3,107		July[c]	107
	November	3,278		April[c]	105
	March, 1873	3,288		September[c]	103
	December	3,477		January, 1873	103

[a] Equalized to months of 30.44 days each, and excluding unknown sex and unknown months.

[b] For the purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

[c] Exceptions to proposition that *more* than the average proportion of males were conceived in months in which *less* than the average total number of conceptions occurred, and *vice versa*.

Tables XXII. to XXVII., inclusive, are similar to tables for preceding years in former Reports. They can best be studied by observing the foot-note at the bottom of each table, giving a proposition, the exceptions to which may be learned by noting the reference marks in the body of the table which refer to the proposition in the foot-note.

TABLE XXIII.—*Exhibiting by Months the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births returned Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

CONCEPTIONS FOR BIRTHS IN 1873.[a]

	Months of 1872 and 1873 of Conceptions of Births in 1873, estimated from Births Corrected as if enumerated in Months of occurrence, and equalized to months of uniform length. Months arranged in order by number, the least number first.	No. of Conceptions as Corrected and Equalized.[b]		Months of 1872 and 1873 of Conceptions of Births in 1873, estimated from Births Corrected as if enumerated in Months of occurrence, and equalized to months of uniform length. Months arranged in order by number of males to 100 females, greatest number first.	No. of Males to 100 Females. Births Corrected and Equalized.
Less than the Average number of Conceptions.	April	3,033	More than the Average proportion of males.	March, 1873[c]	112
	September	3,476		October	111
	May	3,506		November[c]	110
	February, 1873	3,503		May	109
	October	3,690		February, 1873	109
	August	3,696		August	108
	January, 1873	3,737		December[c]	108
Average		3,753			106
More than the Average number of Conceptions.	July	3,785	Less than the Average proportion of males.	June	107
	June	3,928		July	107
	November	4,136		April[c]	105
	March, 1873	4,159		September[c]	103
	December	4,293		January, 1873[c]	103

[a] See note [b] to Table XXII., page 69.

[b] Excluding unknown sex and unknown months.

[c] Exceptions to the proposition that *more* than the average proportion of males were conceived in months in which *less* than the average number of conceptions occurred, and *less* than the average proportion of males in months in which *more* than the average number of conceptions occurred.

TABLE XXIV.—*Exhibiting by Months, according to the returns, the Relation between the total Number of Conceptions, and the total Number of Deaths which occurred in the Months of the Years 1872 and 1873 in which were Conceived the Children born during the Year ending December 31, 1873.*

	DEATHS.			CONCEPTIONS.[b]	
	Months[a] of 1872 and 1873 of Conceptions of Births in 1873, arranged in order by total number of Deaths, the least number first.	Number of Deaths as Equalized.		Months[a] of 1872 and 1873 of Conceptions of Births in 1873, in order by number, the least number first.	Number of Conceptions as Equalized.[a]
Less than the Average Number of Deaths.	June	827	Less than the Average Number of Conceptions.	April[c]	2,074
	January, 1873	843		May[c]	2,445
	May	961		September	2,637
	July	1,031		August	2,744
	November	1,074		July[c]	2,751
	April	1,157		June[c]	2,796
Average		1,189		October	2,863
			Average		2,878
More than the Average Number of Deaths.	February, 1873	1,200			
	March, 1873	1,225	More than the Av. No. of Conceptions.	February, 1873[c]	3,061
	December	1,265		January, 1873	3,108
	October	1,297		November	3,282
	September	1,677		March, 1873[c]	3,291
	August	1,707		December[c]	3,486

[a] Equalized to months of 30.44 days each, excluding unknown months.

[b] See note [b] to Table XXII., page 69.

[c] Exceptions to the proposition that there were *more* than an average number of conceptions in months in which *less* than an average number of deaths occurred, and *less* than an average number in months in which *more* than an average number of deaths occurred.

TABLE XXV.—*Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths; the Number of Deaths and Births returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

	DEATHS.			CONCEPTIONS.[a]	
	Months of 1872 and 1873 of Conceptions of Births in 1873, arranged in order by number of Deaths, the least number first. Deaths Corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length.	No. of Deaths as Corrected and Equalized.		Months of 1872 and 1873 of Conceptions of Births in 1873, estimated from Births Corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.	No. of Conceptions as Corrected and Equalized.[b]
Less than the Average number of Deaths.	June	1,073	Less than the Average number of Conceptions.	April[c]	3,022
	November	1,113		September	3,476
	July	1,258		May[c]	3,596
	May	1,289		February, 1873	3,598
	October	1,317		October[c]	3,699
	April	1,326		August	3,696
	December	1,327		January, 1873	3,737
Average		1,491	Average		3,788
More than the Average number of Deaths.	January, 1873	1,578	More than the Average number of Conceptions.	July	3,785
	September	1,606		June	3,926
	August	1,661		November	4,126
	March, 1873	2,158		March, 1873[c]	4,159
	February, 1873	2,180		December	4,293

[a] See note [b] to Table XXII., page 69.

[b] Excluding unknown month and unknown sex.

[c] Exceptions to proposition that there were *more* than an average number of conceptions in months in which *less* than an average number of deaths occurred, and *less* than an average number of conceptions in months in which *more* than an average number of deaths occurred.

TABLE XXVI.—*Exhibiting by Months the Relation between the Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1872 and 1873; the number of Births and Deaths returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

	DEATHS.			CONCEPTIONS.[a]	
	Months of 1872 and 1873 of Conceptions of Births in 1873, arranged in order by number of Deaths, the least Number first. Deaths corrected as if Enumerated in Months of occurrence, and equalized to months of uniform length.	No. of Deaths as Corrected and Equalized.		Months of 1872 and 1873 of Conceptions of Births in 1873, estimated from Births corrected as if enumerated in Months of occurrence, and equalized to Months of Uniform length. Months arranged in order by Number of Males to 100 Females, greatest Number first.	No. of Males to 100 Females. Births Corrected and Equalized.[b]
Less than the Average number of Deaths.	June	1,073	More than the Average proportion of Males.	March, 1873[c]	112
	November	1,113		October	111
	July	1,258		November	110
	May	1,289		May	109
	October	1,317		February, 1873[c]	109
	April	1,326		August[c]	108
	December	1,327		December	108
Average		1,491	Average		108
More than the Average number of Deaths.	January, 1873	1,578	Less than the Average proportion of Males.	June[c]	107
	September	1,606		July[c]	107
	August	1,661		April[c]	105
	March, 1873	2,158		September	103
	February, 1873	2,180		January, 1873	103

[a] See note [b] to Table XXII., page 69. [b] Excluding unknown month and unknown sex.

[c] Exceptions to proposition that *more* than an average proportion of males were conceived in months in which *less* than an average number of deaths occurred, and *less* than an average proportion of males in months in which *more* than an average number of deaths occurred.

TABLE XXVII.—*Exhibiting, by Months, according to the Returns, the Relation between the Total Number of Deaths, and the Proportion of each Sex Conceived during the same Months of the Years 1872 and 1873, and Born during the Year ending December 31, 1873.*

DEATHS.			CONCEPTIONS.[b]		
	Months[a] of 1872 and 1873 of Conceptions of Births in 1873, arranged in order by Total Number of Deaths, the least number first.	No. of Deaths as Equalized.		Months[a] of 1872 and 1873 in order by Number of Males to 100 Females, the greatest number first.	No. of Males to 100 Females.
Less than the Average number of deaths.	June	827	More than the Average proportion of males.	March, 1873[c]	112
	January, 1873	843		October[c]	111
	May	961		November	110
	July	1,031		May	109
	November	1,074		February, 1873[c]	109
	April	1,157		December[c]	108
Average		1,189		August[c]	108
More than the Average number of deaths.	February, 1873	1,200	Average		108
	March, 1873	1,225	Less than the Average proportion of males.	June[c]	107
	December	1,265		July[c]	107
	October	1,297		April[c]	105
	September	1,677		September	103
	August	1,707		January, 1873[c]	103

[a] Equalized to months of 30.44 days each, excluding unknown months.

[b] See note [b] to Table XXII., page 69.

[c] Exceptions to the proposition that *more* than an average proportion of males were conceived in months in which *less* than an average number of deaths occurred, and *less* than an average proportion of males in months in which *more* than an average number of deaths occurred.

Table XXVIII., and the corresponding tables in previous Reports, show that the order of the proportion of males for the several years, those having the greatest proportion first, among the total births, is: 1871, 110.29; 1870, 108.80; 1873, 107.67; 1872, 107.46 males to one hundred females. The order among Twin children is: 1871, 112.85; 1870, 107.14; 1873, 95.56; 1872, 91.60. Among the Illegitimate children, the order is: 1873, 115.83; 1870, 108.10; 1872, 95.05; 1871, 80.00. Among Still-births, the order is: 1873, 180.70; 1871, 162.96; 1870, 162.50; 1872, 122.22.

The total births and the Still-births show an excess of males in every year, the greatest excess being among the Still-births. An average proportion of males to one hundred females for the four years is: for Total Births, 108.56; for Twins, 101.79; for Illegitimates, 99.75; for Still-births, 157.10. From this statement it will be seen that in each case there is an excess of males, except for illegitimates; and among these for this series of years, the proportion of the sexes is nearly equal.

TABLE XXVIII.—*Exhibiting for the Total Births, for the Twins, Illegitimate, and Still-born Children Returned as having been Born in Michigan during the Year 1873, the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, and thus exhibiting the Influence of Parent-Nativity upon Sex of Children.*

NATIVITY OF PARENTS.	BIRTHS, 1873.[a]		BOYS TO 100 GIRLS.			
	Males.	Females.	Total Births.[a]	Twin Children.	Illegitimate.	Still-born.
All Nativities	17,908	16,632	107.67	95.56	115.83	180.70
Both Parents Native	8,335	7,842	106.29	107.65	.....	186.27
Both Parents Foreign	6,236	5,694	109.52	85.14	.....	178.95
Foreign Father, Mother Native	1,727	1,654	104.41	90.00	.....	133.33
Foreign Mother, Father Native	1,005	935	107.49	82.86	.....	200.00
One or Both Unknown	605	507	119.33	140.00	.....	350.00
Mothers—Native	10,155	9,580	106.00	105.16	125.00	177.27
Mothers—Foreign	7,319	6,685	109.48	86.67	113.16	180.85
Mothers—Unknown	434	367	118.26	60.00	106.67	400.00
Fathers—Native	9,492	8,887	106.70	102.73	115.00	189.83
Fathers—Foreign	8,062	7,433	108.46	85.99	69.23	167.92
Fathers—Unknown	364	312	116.67	500.00	121.70	250.00
One or Both Native	11,302	10,625	106.37	101.20	.....	181.08
One or Both Foreign	9,145	8,424	108.56	87.19	.....	170.97
Both Unknown	193	172	112.21	100.00	.....	200.00
Same Country	[b]14,571	13,536	107.65	97.57	.....	176.47
Different Country	[c] 2,732	2,589	105.52	86.17	.....	181.48
Same American State or Foreign Country	.....	.....	.....	90.28	.....	174.19
Different Am. State or Foreign Country	.....	.....	.....	110.81	.....	203.70

[a] Excluding unknown sex.
[b] Includes "Native" and "Foreign."
[c] Includes "Foreign Father and Native Mother," and "Foreign Mother and Native Father."

To the reader who desires to study this subject further, it may be stated that the whole subject of sex of children was quite thoroughly studied in the Fifth Registration Report,—Vital Statistics of Michigan, 1871.

MARRIAGES.

The number of marriages returned as having been solemnized in Michigan in 1873 was 10,574. It is probable that this does not include all the marriages which were actually solemnized in Michigan during the year 1873, for three reasons: 1, some of the persons who solemnize marriages do not make returns of the same to the county clerks within ninety days after the date of solemnization, as the law provides, and consequently many of the marriages solemnized in the latter part of the year are not received by the county clerk in time to be embodied in his returns to the State Department for that year; 2, some of the county clerks have the erroneous idea that their returns for any given year must include only those which were received for record in their offices during the year for which the returns are being made, whereas the returns for any year should include all the marriages which were solemnized in that year, regardless of when recorded; 3, not all ministers and justices of the peace obey the law which requires a record and return of the marriages they solemnize. Owing to these three sources of error it becomes necessary to make corrections every year in the Report for the previous years. The above statement of the number of marriages in 1873 includes all that were returned to this Department previous to May 1, 1875, and is larger than for any previous year. There will probably be some further additions by returns hereafter which will make the number still larger.

The average number for each of certain specified periods of time, during the year 1873, is as follows:

Average number per quarter	2,643.50
Average number per month	881.17
Average number per week	203.35
Average number per day	28.97

Table I. shows the total number of marriages returned previous to May 1, 1875, as having been solemnized in each of the years 1868–1873, and what number and per cent. of the total number of marriages in the year were returned for each quarter of the year. In 1873 the largest per cent. was for the quarter ending with September; but in the previous years the largest proportion is shown for the quarter ending with December. This proportion for December, 1873, will probably be increased more than for any other quarter by the returns for next year, which may raise the proportion above that of any other quarter of the year 1873. But the original returns for each of the previous years, except 1869, show the largest proportion for the quarter ending with December. In the original returns for 1869 the per cent. for the quarter ending with December was 1.54 less than for the quarter ending with September; but the subsequent returns have increased the number returned as having been solemnized in the latter part of the year so as to make the proportion for the

last quarter exceed that for the previous quarter by 8.10. In 1873 the excess of the per cent. for the quarter ending with September over the last quarter of the year is 1.30; and judging from 1869, the subsequent returns will increase the number solemnized in the last quarter of 1873 so as to make the proportion for that quarter exceed that for any other quarter of the year.

TABLE I.—*Marriages by Quarters of the Year, showing the Number and Per Cent. in each Quarter of the Year, for each of the Years 1868, 1869, 1870, 1871, 1872, and 1873, Corrected up to May 1, 1875.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.		1873.	
	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.
Totals.....	8,647	100.00	10,303	100.00	9,736	100.00	10,528	100.00	10,537	100.00	10,574	100.00
March.....	1,528	17.67	2,300	22.32	2,497	25.64	2,514	23.87	2,377	22.56	2,580	24.39
June.....	1,819	21.03	2,256	21.89	2,155	22.13	2,286	21.71	2,337	22.18	2,578	24.38
September....	2,158	24.96	2,447	23.75	2,178	22.37	2,501	23.76	2,572	24.41	2,774	26.23
December....	3,134	36.24	3,292	31.85	2,888	29.66	3,212	30.51	3,244	30.78	2,637	24.93
Unknown....	8	.09	18	.17	18	.18	15	.14	7	.06	5	.05
Average ....[a]	2,162	25.00	2,576	25.00	2,434	25.00	2,632	25.00	2,634	25.00	2,644	25.00

[a] The number in unknown quarter of year included.

Exhibit A shows the number of marriages for each of the years 1868–1873, by quarters, as originally returned and compiled and published in Reports. By comparing this with Table I. it may be seen that the additions are principally for the latter part of each of the years.

EXHIBIT A.—*Marriages by Quarters of the Year, showing Number and Per Cent. in each Quarter of the Year, for each of the Years 1868, 1869, 1870, 1871, 1872, and 1873, as Originally Returned and Published in Reports.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.		1873.	
	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.
Totals.....	6,866	100.00	8,459	100.00	9,160	100.00	10,181	100.00	9,882	100.00	10,574	100.00
March.....	1,377	20.05	2,167	25.61	2,429	26.51	2,475	24.30	2,326	23.54	2,580	24.39
June.....	1,667	24.13	2,007	24.79	2,081	22.71	2,250	22.09	2,281	23.08	2,578	24.38
September....	1,886	27.46	2,154	25.46	2,073	22.63	2,423	23.79	2,471	25.01	2,774	26.23
December....	1,924	28.16	2,024	23.92	2,560	27.94	3,018	29.64	2,797	28.30	2,637	24.94
Unknown....	12	.17	17	.20	17	.18	15	.14	7	.07	5	.05
Average ....[a]	1,716	25.00	2,114	25.00	2,290	25.00	2,545	25.00	2,471	25.00	2,644	25.00

[a] Includes those in unknown quarter of year.

TABLE II.—*Marriages by Months Arranged in Order by Number, Months having greatest number first, for the Years 1868, 1869, 1870, 1871, 1872, and 1873. (Corrected up to May 1, 1875.)*

ORDER.	1868.			1869.			1870.			1871.			1872.			1873.		
	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.
	Total....	8,647	100.00	Total....	10,303	100.00	Total....	9,736	100.00	Total....	10,528	100.00	Total....	10,536	100.00	Total....	10,574	100.00
1..	Dec.....	1,138	13.16	Dec.....	1,181	11.46	Dec.....	1,010	10.37	Dec.....	1,173	11.14	Dec.....	1,153	10.94	July.....	1,053	9.96
2..	Nov.....	1,028	11.90	Nov.....	1,064	10.33	Nov.....	963	9.89	Oct.....	1,021	9.70	Nov.....	1,047	9.94	Oct.....	970	9.17
3..	Oct.....	968	11.19	Oct.....	1,037	10.07	Oct.....	915	9.40	Nov.....	1,018	9.67	Oct.....	1,043	9.89	Jan.....	963	9.11
4..	Sept.....	843	9.75	Sept.....	895	8.69	Jan.....	846	8.69	Jan.....	925	8.79	July.....	949	9.01	Sept.....	933	8.82
5..	July.....	718	8.30	Jan.....	862	8.37	Mar.....	833	8.56	July.....	911	8.65	April.....	880	8.35	April.....	870	8.23
6..	Jan.....	681	7.88	July.....	832	8.08	Feb.....	818	8.40	April.....	892	8.38	Sept.....	855	8.11	Nov.....	868	8.21
7..	May.....	667	7.71	May.....	816	7.92	July.....	810	8.32	Sept.....	861	8.18	Mar.....	845	8.03	May.....	862	8.15
8..	April.....	614	7.10	April.....	763	7.41	May.....	784	8.05	Mar.....	811	7.70	Jan.....	826	7.84	June.....	846	8.00
9..	Aug.....	597	6.90	Mar.....	753	7.31	April.....	759	7.80	Feb.....	778	7.39	Aug.....	768	7.29	Mar.....	841	7.95
10..	June.....	538	6.22	Aug.....	720	6.98	Sept.....	752	7.72	May.....	758	7.20	May.....	750	7.12	Dec.....	790	7.56
11..	Feb.....	462	5.34	Feb.....	685	6.65	Aug.....	616	6.33	Aug.....	729	6.92	June.....	707	6.71	Aug.....	788	7.45
12..	Mar.....	385	4.45	June.....	677	6.56	June.....	612	6.29	June.....	646	6.14	Feb.....	706	6.70	Feb.....	776	7.34
	Unk.....	8	.09	Unk.....	18	.17	Unk.....	18	.18	Unk.....	15	.14	Unk.....	7	.07	Unk.....	5	.05
	Av.....[a]	720.58	8.33	Av.....[a]	858.58	8.33	Av.....[a]	811.33	8.33	Av.....[a]	877.33	8.33	Av.....[a]	878.00	8.33	Av.....[a]	881.17	8.33

[a] Includes those for unknown months.

Table II. shows that for each year previous to 1873 the greatest number of marriages were solemnized in December. For reasons stated in the comments on Table I. it is probable that the next Report will show for 1873 the greatest number in December, although in this Report December is tenth in the order of greatest number first.

EXHIBIT B.—*Marriages in Michigan during the Years 1868, 1869, 1870, 1871, 1872, and 1873, Corrected up to May 1, 1875, and Equalized to Uniform Months of 30.44 days each.*

	Y'rs.	Total.	Months.												
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Marriages as returned	1868	8,647	681	462	385	614	667	533	718	597	843	968	1,028	1,138	8
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length		.....	-.56	+1.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length		-26	- 12	+23	- 7	+ 9	- 12	+ 8	- 13	- 11	+ 12	- 17	+ 15	- 21	.....
Marriages equalized to months of uniform length		8,621	669	485	378	623	655	546	705	586	855	951	1,043	1,117	8
[illegible]ages as returned	1869	10,303	892	685	753	763	816	677	832	720	895	1,037	1,064	1,181	18
[illegible]nd hundredths by which the months should be increased or diminished to equalize them to uniform length		.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
[illegible]by which the marriages should be increased or diminished to equalize them to months of uniform length		-3	- 16	+ 60	- 14	+ 11	- 15	+ 10	- 15	- 13	+ 13	- 19	+ 16	- 21	.....
[illegible]alized to months of uniform length		10,300	846	745	739	774	801	687	817	707	908	1,018	1,080	1,160	18
[illegible]	1870	9,736	846	818	833	759	784	612	810	616	752	915	963	1,010	18
[illegible] by which the months should be increased to equalize them to uniform length		.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
[illegible] marriages should be increased or diminished to months of uniform length		+11	- 15	+ 71	- 15	+ 11	- 14	+ 9	- 15	- 11	+ 11	- 17	+ 14	- 18	.....
[illegible]to months of uniform length		9,747	831	889	818	770	770	621	795	605	763	898	977	992	18
[illegible]	1871	10,528	925	778	811	882	758	646	911	729	861	1,021	1,018	1,173	15
[illegible] by which the months should be increased to equalize them to uniform length		.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
[illegible] marriages should be increased or diminished to months of uniform length		+4	- 17	+ 68	- 15	+ 13	- 14	+ 9	- 16	- 13	+ 13	- 18	+ 15	- 21	.....
[illegible]to months of uniform length		10,532	908	846	796	895	744	635	896	716	874	1,003	1,033	1,152	15

EXHIBIT B.—CONTINUED.—*Marriages by Months.*

	Y'RS.	TOTAL.	MONTHS.												
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Marriages as returned	1872	10,536	926	706	845	880	750	707	949	768	855	1,043	1,047	1,153	7
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length		.....	-.56	+1.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length		-30	- 15	+ 35	- 15	+ 13	- 14	+ 10	- 18	- 14	+ 13	- 19	+ 15	- 21	.....
Marriages equalized to months of uniform length		10,506	811	741	830	893	736	717	931	754	868	1,024	1,062	1,132	7
Marriages as returned	1873	10,574	963	776	841	870	862	846	1,053	788	933	970	868	799	5
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length		.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length		+7	- 17	+ 68	- 15	+ 13	- 16	+ 12	- 19	- 14	+ 14	- 18	+ 13	- 14	.....
Marriages equalized to months of uniform length		10,581	946	844	826	883	846	858	1,034	774	947	952	881	785	5

Exhibit B shows for each of the years 1868–1873 the number of marriages as returned, by months, and as equalized to months of equal length. When the months are equalized to uniform length the order, by greatest number first, is different from that in Table II., which represents the marriages as returned. The order of months in 1873, as shown in Exhibit B, is as follows: July, October, September, January, April, November, June, May, February, March, December, August. The "Fourth of July" marriages seem to have been rather more numerous than usual, and without full returns for the last three months of the year make July first in order, but this, it will be seen, is unusual, and the order will probably be different when the marriages in the last quarter of the year are returned.

Diagram No. 2 exhibits graphically by months the marriages in Michigan since the Registration Reports have been compiled. The lines for the several years 1868 to 1873, inclusive, represent to the eye the relations which the months, in each year and in the several years, bear to each other, and thus convey a clearer idea of the tendency to marriage in each month, than can well be gained from any table. This is more accurately represented in the diagram than in Table II., because the diagram represents the months as they would be if of equal length, as shown in the last line opposite each year in Exhibit B. The dropping of the line for the last three months in 1873 is quite noticeable in the diagram. This will not correctly represent the marriages in that quarter after all shall have been returned.

DIAGRAM No. 2.

Marriages in Michigan during the years 1868, 1869, 1870, 1871, 1872, and 873, by months equalized to uniform length of 30.44 days each. From re-irns corrected up to May 1, 1875.

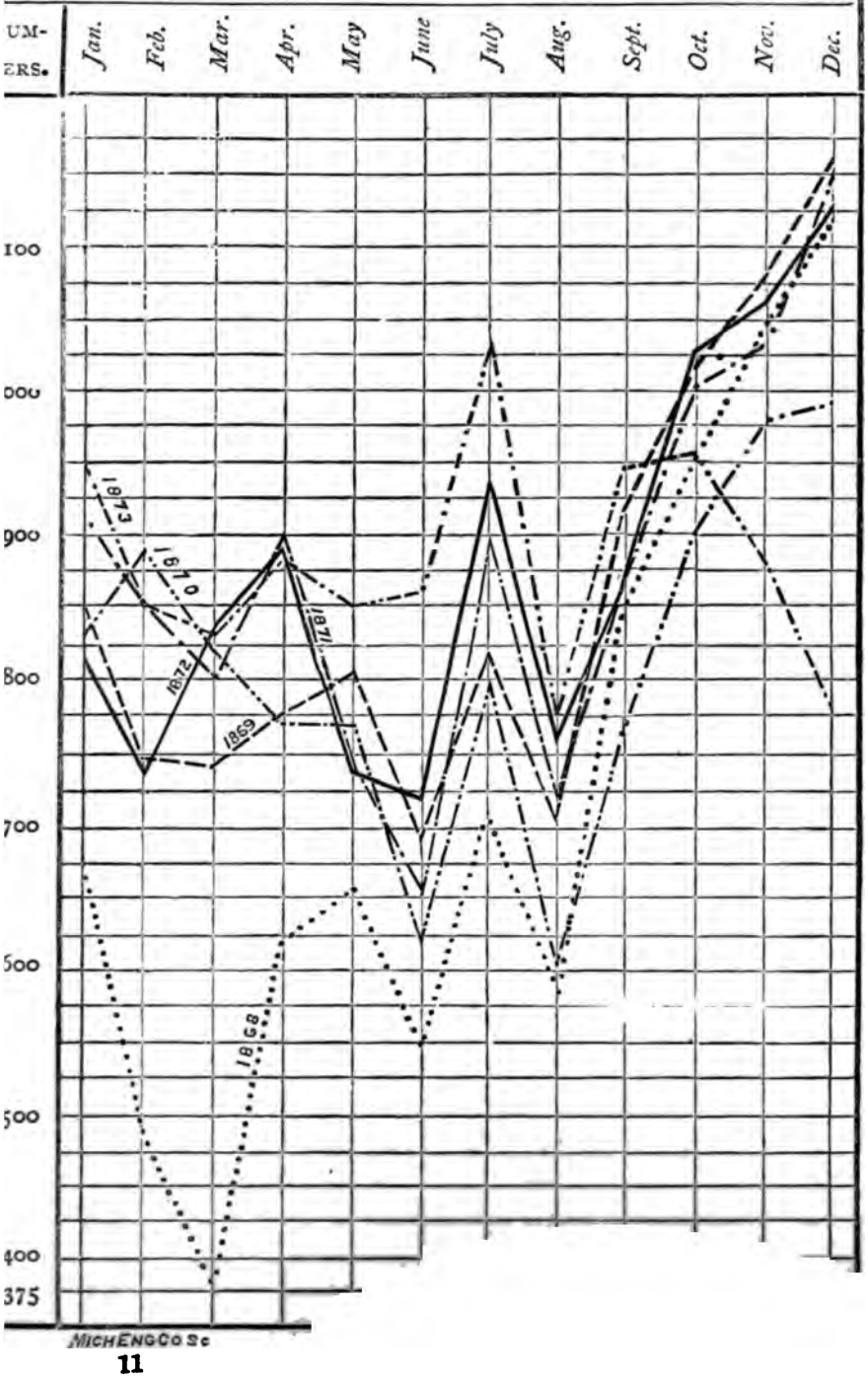


TABLE III.—*Distinguishing, by Counties and by Months, the Number of Marriages Returned as having been Solemnized during the Year ending December 31, 1873.*

STATE AND COUNTIES.	YEAR, 1873.	MONTHS, 1873.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unkno'n.
STATE	10,574	963	776	841	870	862	846	1,053	788	933	970	868	799	5
Alcona	4	.....	.....	.....	.....	.....	.....	1	1	.....	.....	2	.....	.....
Allegan	242	17	19	19	22	21	16	22	19	12	32	22	21	.....
Alpena	42	3	2	4	3	5	6	1	4	5	4	3	2	.....
Antrim	42	5	1	2	4	6	2	3	2	4	3	5	5	.....
Barry	184	12	19	17	17	12	22	18	10	11	13	15	18	.....
Bay	150	12	6	10	14	8	11	18	15	14	12	12	18	.....
Benzie	23	2	.....	1	2	6	3	1	2	3	1	1	1	.....
Berrien	329	37	23	30	29	27	30	45	18	21	26	28	15	.....
Branch	232	32	15	21	15	12	17	14	11	20	30	26	19	.....
Calhoun	283	28	26	18	11	21	17	27	23	30	24	28	30	.....
Cass	204	17	18	26	9	12	16	13	12	18	27	11	25	.....
Charlevoix	17	.....	2	1	1	2	1	1	1	2	3	2	1	.....
Cheboygan	23	2	.....	.....	1	1	3	3	2	3	3	3	2	.....
Chippewa	10	.....	1	2	1	.....	2	1	.....	1	1	1	.....	.....
Clare	15	1	1	1	.....	1	1	2	1	1	2	2	2	.....
Clinton	144	19	21	11	13	10	13	15	13	7	10	9	3	.....
Delta[a]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eaton	179	28	19	15	10	14	14	*20	12	20	15	5	7	.....
Emmet	5	.....	.....	.....	.....	.....	.....	1	2	.....	.....	1	1	.....
Genesee	209	31	19	21	20	15	12	14	15	23	21	10	8	.....
Gr. Traverse	31	3	.....	.....	6	1	4	4	5	.....	3	4	1	.....
Gratiot	121	11	11	18	6	13	12	13	11	9	9	6	2	.....
Hillsdale	308	27	32	25	29	19	19	26	19	23	35	31	24	.....
Houghton	191	7	6	11	10	17	23	18	21	23	18	25	11	1
Huron	90	9	5	7	4	9	5	9	8	5	14	8	7	.....
Ingham	209	23	15	23	21	20	12	21	15	21	22	29	27	.....
Ionia	292	18	18	28	27	28	2	26	19	26	20	28	22	2
Iosco	46	.....	3	5	9	4	6	4	5	4	2	4	.....	
Isabella	31	4	1	4	2	5	3	3	4	1	3	1		
Jackson	231	26	13	14	19	20	15	24	23	26	27			
Kalamazoo	290	24	31	26	23	17	21	26	19	17	1			
Kalkaska	4	.....	1	.....	.....	.....	1	.....	1	1				
Kent	568	44	34	36	49	45	41	67	49	3				

[a] No returns of marriages to this Department.

TABLE III.—CONTINUED.—*Marriages by Counties, by Months.*

COUNTIES.	YEAR, 1873.	MONTHS, 1873.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unknown.
Keweenaw.	26	1	3	1	.....	3	2	2	2	4	4	3	1	.....
Lake.....	11	.....	1	.....	1	1	.....	1	3	1	1	2	.....	.....
Lapeer.....	187	16	7	17	18	10	10	25	13	21	17	12	21	.....
Leelanaw..	42	2	1	.....	1	6	7	5	10	3	3	.....	4	.....
Lenawee...	454	60	35	42	34	38	26	32	26	32	40	43	46	.....
Livingston.	134	17	6	6	11	13	6	15	5	9	16	11	19	.....
Mackinac...	6	.....	.....	.....	.....	1	.....	1	1	1	1	.....	1	.....
Macomb....	200	13	22	14	18	15	17	15	8	20	16	22	20	.....
Manistee...	97	10	4	8	6	10	9	8	6	9	13	13	1	.....
Manitou....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Marquette..	267	12	9	6	11	21	30	45	29	42	16	24	22	.....
Mason.....	41	3	1	1	3	6	8	3	4	4	4	2	2	.....
Mecosta....	95	4	7	12	11	2	5	13	6	10	11	6	8	.....
Menominee.	22	3	1	2	3	2	2	3	3	1	.....	1	1	.....
Midland....	49	1	4	6	3	8	2	2	3	5	4	6	5	.....
Missaukee..	4	.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	1	.....
Monroe.....	236	33	18	13	17	23	19	9	17	13	22	37	15	.....
Montcalm..	171	18	7	20	9	12	13	13	12	19	20	13	15	.....
Muskegon..	187	25	6	13	15	14	12	28	19	18	11	17	8	1
Newaygo...	81	6	5	5	6	9	8	4	6	9	7	8	8	.....
Oakland....	239	27	28	18	15	16	11	16	14	16	27	23	28	.....
Oceana.....	31	.....	.....	.....	.....	.....	2	4	3	8	7	1	6	.....
Ontonagon..	21	2	1	2	2	2	2	2	2	1	3	2	.....	.....
Osceola.....	62	7	3	5	5	3	5	10	5	5	10	3	1	.....
Ottawa.....	238	15	14	18	26	18	16	15	25	24	33	21	13	.....
Presque Isle.	7	.....	.....	1	.....	.....	2	1	1	1	.....	1	.....	.....
Saginaw....	428	18	29	32	46	43	33	48	33	37	41	37	31	.....
Sanilac.....	89	5	6	9	8	15	5	13	10	9	5	3	1	.....
Schoolcraft	8	.....	2	.....	.....	.....	.....	1	1	.....	.....	.....	4	.....
Shiawassee.	116	16	10	18	13	9	7	10	1	10	13	7	2	.....
St. Clair....	290	25	24	17	33	33	26	26	27	31	23	16	9	.....
St. Joseph..	276	26	23	25	24	20	21	24	16	22	30	17	28	.....
Tuscola....	121	9	9	10	12	10	9	18	16	8	10	10	.....	.....
Van Buren.	261	13	24	23	23	18	17	30	9	18	22	27	37	.....
Washtenaw	234	24	22	24	23	21	25	18	12	28	18	10	9	.....
Wayne.....	932	106	80	66	91	88	116	111	84	83	53	39	15	.....
Wexford....	30	4	2	1	5	1	3	2	1	5	3	1	2	.....

Table IV. contains data regarding the marriage-rates among different races, and their relation to each other and to the marriage-rates of all races in the State. According to the table the marriage-rate is greatest among the Black, and smallest among the Mulatto inhabitants. This is true for each of the years 1870–1873, but it may be only the result of a different statement of the color by the census marshals and by those who solemnize marriages. This seems to be the case—the last named persons calling many "black" whom the census marshals called "mulatto." According to the table there were twenty-eight persons in Michigan who married those of another color; in 1872 there were eighteen; and in 1871, thirty.

TABLE IV.—*Exhibiting, by Color and by Sex, the Population, June 1, 1870, the Number of Marriages, the Number and Per Cent. of Total Number of Persons Married in Michigan during the Year 1873, and the Per Cent. of Persons Married in 1873 to Population, June 1, 1870.*

COLORS.	SEX.	Population, June 1, 1870, represented by Marriages in 1873.	Number of Marriages.	Persons Married.		Per Cent. of Persons Married in 1873 to Population, June 1, 1870, by Sex and Color.	Number of Persons who Married those of another Color.
				Number.	Per Cent. of Total Number.		
All Colors	Total	1,181,841	10,574	21,148	100.00	1.789	28
	Males	616,765	.....	10,574	50.00	1.714	14
	Females	565,076	.....	10,574	50.00	1.871	14
White	Total	1,165,329	9,980	20,129	95.18	1.727	14
	Males	608,196	.....	10,145	47.97	1.168	6
	Females	557,133	.....	9,984	47.21	1.792	8
Black	Total	5,521	88	177	.83	3.206	10
	Males	3,047	.....	89	.42	2.921	8
	Females	2,474	.....	88	.42	3.551	2
Mulatto	Total	6,223	5	10	.05	.161	.....
	Males	3,140	.....	5	.02	.159	.....
	Females	3,083	.....	5	.02	.162	.....
Indian	Total	4,768	18	37	.17	.776	4
	Males	2,382	.....	19	.09	.798	.....
	Females	2,386	.....	18	.09	.754	4
One or Both Unknown	Total	.....	483	795	3.76	.....	.....
	Males	.....	.....	316	1.49	.....	.....
	Females	.....	.....	479	2.26	.....	.....
Black and Mulatto	Total	11,744	93	187	[illegible]	1.593	10
	Males	6,187					[illegible]
	Females	5.5[illegible]					

TABLE V.—*Exhibiting, for the State and Counties, the Number of Marriages Returned as having been Solemnized in Michigan during the Year 1873, the Number of White Persons, and by Color the Number of Marriages where one or both Parties were Other than White.*

STATE AND COUNTIES.	Marriages in 1873.	Color of Persons Married.								
		White.	Black.	Mulatto.	Indian.	Female Unk. Male.			Male Unk. Female.	Both Unknown.
						White.	Black.	Indian.	White.	
STATE	10,574	9,080	[a] 88	5	[b] 18	165	[c] 1	1	4	312
Alcona	4	4	.....	.....	.....	.....	.....	.....	.....	.....
Allegan	242	241	.....	.....	[d] 1	.....	.....	.....	.....	.....
Alpena	42	42	.....	.....	.....	.....	.....	.....	.....	.....
Antrim	42	42	.....	.....	.....	.....	.....	.....	.....	.....
Barry	184	183	.....	1	.....	.....	.....	.....	.....	.....
Bay	150	146	[e] 3	.....	1	.....	.....	.....	.....	.....
Benzie	23	23	.....	.....	.....	.....	.....	.....	.....	.....
Berrien	329	320	[f] 4	.....	.....	.....	[g] 1	.....	.....	4
Branch	232	210	[h] 1	.....	.....	11	.....	.....	2	8
Calhoun	283	277	[i] 4	1	.....	1	.....	.....	.....	.....
Cass	204	186	[j] 13	.....	.....	2	.....	.....	.....	3
Charlevoix	17	15	1	.....	1	.....	.....	.....	.....	.....
Cheboygan	23	22	.....	.....	[k] 1	.....	.....	.....	.....	.....
Chippewa	10	9	.....	.....	[l] 1	.....	.....	.....	.....	.....
Clare	15	15	.....	.....	.....	.....	.....	.....	.....	.....
Clinton	144	144	.....	.....	.....	.....	.....	.....	.....	.....
Delta [m]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eaton	179	178	[h] 1	.....	.....	.....	.....	.....	.....	.....
Emmet	5	.....	.....	.....	4	.....	.....	1	.....	.....
Genesee	209	203	.....	.....	.....	.....	.....	.....	.....	6
Grand Traverse	31	31	.....	.....	.....	.....	.....	.....	.....	.....
Gratiot	121	120	[n] 1	.....	.....	.....	.....	.....	.....	.....
Hillsdale	308	308	.....	.....	.....	.....	.....	.....	.....	.....
Houghton	191	191	.....	.....	.....	.....	.....	.....	.....	.....
Huron	90	90	.....	.....	.....	.....	.....	.....	.....	.....

[a] Includes 38 couples "African," 2 couples "Dark," 6 couples "African and White," 2 couples male "African" and female "African and Indian," 1 couple "White and Dark," 1 couple "White and African," 1 couple "Dark and White," 1 couple "Dark and Light," and 30 couples "Colored." [b] Includes 1 couple "Red," 1 couple male "White and Indian" and female "Indian," and 4 couples "White and Indian." [c] 1 couple "African." [d] 1 couple "Red." [e] 3 couples "African." [f] 2 couples "African." [g] 1 "African." [h] 1 couple "African." [i] 2 couples "Dark." [j] 6 couples "African and White," 6 couples "African," and 1 couple male "African" and female "African and Indian." [k] 1 couple male "White and Indian" and female Indian. [l] 1 couple "White and Indian." [m] No returns of marriages to this Department. [n] 1 couple "White and Dark."

TABLE V.—CONTINUED.—*Marriages by Color.*

COUNTIES.	Marriages in 1873.	COLOR OF PERSONS MARRIED.								
		White.	Black.	Mulatto.	Indian.	FEMALE UNK. Male.			MALE UNK. Female.	Both Unknown.
						White.	Black.	Indian.	White.	
Ingham	269	269	.....	.....	.....	.....	.....	.....	.....	.....
Ionia	292	292	.....	.....	.....	.....	.....	.....	.....	.....
Iosco	46	45	.....	.....	.....	.....	.....	.....	.....	1
Isabella	31	30	.....	.....	1	.....	.....	.....	.....	.....
Jackson	281	281	.....	.....	.....	.....	.....	.....	.....	.....
Kalamazoo	290	283	[a]5	1	.....	.....	.....	.....	.....	1
Kalkaska	4	4	.....	.....	.....	.....	.....	.....	.....	.....
Kent	588	584	.....	.....	.....	4	.....	.....	.....	.....
Keweenaw	26	23	.....	.....	.....	.....	.....	.....	.....	3
Lake	11	11	.....	.....	.....	.....	.....	.....	.....	.....
Lapeer	187	187	.....	.....	.....	.....	.....	.....	.....	.....
Leelanaw	42	40	.....	.....	2	.....	.....	.....	.....	.....
Lenawee	454	446	[b]7	.....	.....	.....	.....	.....	.....	1
Livingston	134	134	.....	.....	.....	.....	.....	.....	.....	.....
Mackinac	6	6	.....	.....	.....	.....	.....	.....	.....	.....
Macomb	200	198	[c]2	.....	.....	.....	.....	.....	.....	.....
Manistee	97	97	.....	.....	.....	.....	.....	.....	.....	.....
Manitou	2	2	.....	.....	.....	.....	.....	.....	.....	.....
Marquette	267	264	.....	.....	[d]3	.....	.....	.....	.....	.....
Mason	41	.....	.....	.....	.....	16	.....	.....	.....	25
Mecosta	95	95	.....	.....	.....	.....	.....	.....	.....	.....
Menominee	22	22	.....	.....	.....	.....	.....	.....	.....	.....
Midland	49	3	.....	.....	.....	44	.....	.....	.....	2
Missaukee	4	4	.....	.....	.....	.....	.....	.....	.....	.....
Monroe	236	235	[e]1	.....	.....	.....	.....	.....	.....	.....
Montcalm	171	.....	.....	.....	.....	.....	.....	.....	.....	171
Muskegon	187	181	[f]2	.....	.....	1	.....	.....	.....	3
Newaygo	81	.....	.....	.....	.....	.....	.....	.....	.....	81
Oakland	239	238	[g]1	.....	.....	.....	.....	.....	.....	.....
Oceana	31	31	.....	.....	.....	.....	.....	.....	.....	.....
Ontonagon	21	21	.....	.....	.....	.....	.....	.....	.....	.....
Osceola	62	62	.....	.....	.....	.....	.....	.....	.....	.....
Ottawa	238	237	[h]1	.....	.....	.....	.....	.....	.....	.....

[a]5 couples "African." [b]7 couples "African." [c]2 couples "African." [d]3 Indian." [e]1 couple "White and African." [f]1 couple "Dark and White" and [g]1 couple "African." [h]1 couple "Colored."

TABLE V.—CONTINUED.—*Marriages by Color.*

COUNTIES.	Marriages in 1873.	COLOR OF PERSONS MARRIED.								
		White.	Black.	Mulatto.	Indian.	FEMALE UNK. Male. White.	FEMALE UNK. Male. Black.	FEMALE UNK. Male. Indian.	MALE UNK. Female. White.	Both Unknown.
Presque Isle	7	7	.....	.....	.....	.....	.....	.....	.....	.....
Saginaw	428	422	[a]6	.....	.....	.....	.....	.....	.....	.....
Sanilac	89	1	.....	.....	.....	86	.....	.....	2	.....
Schoolcraft	8	8	.....	.....	.....	.....	.....	.....	.....	.....
Shiawassee	116	115	.....	.....	.....	.....	.....	.....	.....	1
St. Clair	290	288	[b]1	.....	.....	.....	.....	.....	.....	1
St. Joseph	276	274	.....	2	.....	.....	.....	.....	.....	.....
Tuscola	121	121	.....	.....	.....	.....	.....	.....	.....	.....
Van Buren	261	256	[c]2	.....	3	.....	.....	.....	.....	.....
Washtenaw	234	228	[d]6	.....	.....	.....	.....	.....	.....	.....
Wayne	932	905	[e]26	.....	.....	.....	.....	.....	.....	1
Wexford	30	30	.....	.....	.....	.....	.....	.....	.....	.....

[a] 6 couples "African." [b] 1 couple "African." [c] 1 couple male "African" and female "African and Indian." [d] 3 couples "African," and 3 couples "Colored." [e] 26 couples "Colored."

Exhibit 1 is a new one, designed to show the manner in which persons of the same or of different nativities were united by marriage, and the whole number and per cent. of brides and bridegrooms, of each nativity. It is to be read as follows: Of the bridegrooms, native of the United States, 6,127 married brides native of this country, 707 married foreign-born brides, and 65 married brides of unknown nativity; making a total of 6,899 native bridegrooms, which is 65.24 per cent. of bridegrooms of all nativities. Of the brides, native-born, 6,127 married native bridegrooms, 1,316 married foreign-born bridegrooms, and 32 married bridegrooms of unknown nativity; making a total of 7,475 native brides, which is 70.69 per cent. of brides of all nativities. The statements for the foreign-born brides and bridegrooms are to be read in a similar manner.

The statements in Exhibit 1 may be compared with statements of the proportion of the inhabitants of Michigan, native and foreign-born, at ages at which marriages may occur, as follows: According to the United States Census, among the male inhabitants of Michigan in 1870, aged eighteen years and over (marriageable ages), the proportion of native-born was 65.16, and of foreign-born, 34.84; and among the female inhabitants of Michigan in 1870, aged fifteen years and over (including one year younger than the legal marriageable ages, but at which age 101 females were married in 1873) the proportion of the native-born was 71.03, and of the foreign-born, 28.97. Comparing these statements with those in the Exhibit, it will be seen that they do not greatly differ.

EXHIBIT 1.—*By Nativity the Number and Per Cent. of Brides and Bridegrooms Returned as having been Married in Michigan during the Year ending December 31, 1873, and by Number the Manner of their Union by Nativities.*

		Brides.			Bridegrooms.	
		Native.	Foreign.	Unknown.	Totals of each Nativity, and of all Nativities.	Per Cent. of each Nativity.
Bridegrooms..	Native	6,127	707	65	6,899	65.24
	Foreign	1,316	2,191	34	3,541	33.49
	Unknown	32	3	99	134	1.27
Brides	Whole Number of Each Nativity, and Total	7,475	2,901	198	10,574	.....
	Per Cent. of Each Nativity, and Total	70.69	27.44	1.87	.....	100.00

TABLE VI.—*Exhibiting, by Sex, the Nativity of Persons Married in Michigan during the Year 1873; Number of Inhabitants, June 1, 1870, Represented by Returns of Marriages in 1873; and Per Cent. of Persons Married to Inhabitants of same Nativity.*

NATIVITY.	Marriages.		Inhabitants, June 1, '70, Rep. resent'd by Marriages in '73.			Persons Married.					
						Number.			Per Ct. of Persons Married in 1873 to Inhabit'ts of same Nativity, June 1, 1870.		
	Number.	Per Cent. of Total.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.
Total	10,574	100.00	1,181,841	616,765	565,076	21,148	10,574	10,574	1.79	1.71	1.87
Native	6,127	57.94	917,309	469,945	447,364	14,374	6,899	7,475	1.57	1.46	1.67
Foreign	2,191	20.72	264,532	146,820	117,712	6,442	3,541	2,901	2.44	2.41	2.46
Foreign Male and Native Female	1,316	12.45	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foreign Female and Native Male	707	6.69	.....	.....	.....	.....	.....	.....	.....	.....	.....
One or Both Unknown..	233	2.20	.....	.....	.....	332	134	198	.....	.....	.....
One or Both Native	8,247	77.99	.....	.....	.....	.....	.....	.....	.....	.....	.....
One or Both Foreign	4,251	40.20	.....	.....	.....	.....	.....	.....	.....	.....	.....

Table VI. shows the marriage-rate by nativity and sex, and indicates a large excess among the foreign-born, as is the case with the corresponding tables for the previous years. But Exhibit C shows that the marriage-rate among the inhabitants aged 15 to 45 years is not very different for different nativities.

The excess of the marriage-rate among the foreign-born inhabitants shown in Table VI. is due to the fact that the Native includes the most of the inhabitants under the marriageable age.

It should be stated that Table VI. is not strictly comparable with similar tables for previous years, because for this year where the nativity of only one of the parties to the marriage was stated it was so compiled, whereas in previous years if the nativity of one was unknown the nativity of both was compiled as unknown.

Exhibit C shows a slightly larger marriage-rate among the foreign-born than among the native inhabitants aged 15 to 45 years. For the males it shows a slight excess among the foreign, and for the females a larger marriage-rate for the native-born inhabitants. The same is true for 1871; but in 1872, according to the returns, the largest marriage-rate was among the native-born inhabitants for each sex and for both sexes.

EXHIBIT C.—*Relation of Marriages in 1873 of Persons of All Nativities, and of those where both Parties were either Native or Foreign-born, to the Total, to the Native, and to the Foreign-born Inhabitants, June 1, 1870, Aged 15 to 45 Years.*

NATIVITY.	Inhabitants, June 1, 1870, Aged 15 to 45 Years.			Persons Married.			Per Ct. of Persons Married in 1873 to Inhabitants, June 1, 1870, Aged 15 to 45 Years.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities.....[a]	555,352	289,085	266,267	21,148	10,574	10,574	3.81	3.66	3.97
Native.....	387,306	195,765	191,541	14,374	6,899	7,475	3.71	3.52	3.90
Foreign.....	168,046	93,320	74,726	6,442	3,541	2,901	3.83	3.79	3.88

[a] In the number married, this line includes marriages of "foreign males and native females," "foreign females and native males," and of persons whose nativity was "unknown."

The greatest marriage-rate among males, as shown by Table VII., was at the ages of twenty-one to twenty-five years, among the females at the age of nineteen years. The second greatest rate among males was at the ages of twenty-five to thirty, the second greatest among females at the age of eighteen years. The ages at which the proportions of the sexes are nearest alike are from twenty-one to twenty-five years. This is shown in two columns in Table VII. which have not heretofore been published in similar tables for previous years, but which are now inserted to show the proportion of each sex at each age or period of age. It will be seen that the females outnumber the males at all ages under twenty-one years, and that the males outnumber the females at all ages above that of twenty-one years.

TABLE VII.—*By Sex and Periods of Age, the Population, June 1, 1870, Represented by Marriages in 1873, and by Sex the Number and Per Cent. of Total Number of Persons Married at each Age and Period of Age; the Per Cent. of each Sex at each Age and Period of Age; and the Per Cent. of Persons Married to Population of same Age and Period of Age.*

AGES, IN YEARS AND PERIODS OF YEARS.	MARRIAGES.—1873.							POPULAT'N AT EACH AGE AND PERIOD, JUNE 1, '70, REPRESENT'D BY MARRIAGES IN 1873.[a]		PER CENT. OF MARRIAGES TO POPULAT'N OF CORRESPONDING AGE.	
	Total Number of Persons Married.	MALES.			FEMALES.						
		Number Married.	Per Ct. of Total Marriages.	Per Ct. of Persons Married at Correspondi'g Ages.	Number Married.	Per Ct. of Total Marriages.	Per Ct. of Persons Married at Correspondi'g Ages.	Males.	Females.	Males.	Females.
All Ages.....[b]	21,148	10,574	100.00	50.00	10,574	100.00	50.00	376,126	382,854	2.81	2.76
12.....	1	.....	.....	.....	1	.01	100.00	.....	14,662	.....	.01
13.....	1	.....	.....	.....	1	.01	100.00	.....	13,231	.....	.01
14.....	21	.....	.....	.....	21	.20	100.00	.....	12,917	.....	.16
15.....	101	.....	.....	.....	101	.96	100.00	.....	11,698	.....	.86
16.....	559	2	.02	.35	557	5.27	99.65	12,566	12,478	.01	4.46
17.....	786	1	.01	.13	785	7.42	99.87	11,739	11,313	.01	6.94
18.....	1,277	56	.53	4.38	1,221	11.55	95.61	12,465	12,689	.45	9.62
19.....	1,345	191	1.81	14.20	1,154	10.91	85.80	11,468	10,697	1.67	10.79
20.....	1,448	444	4.19	30.66	1,004	9.49	69.34	12,299	12,371	3.61	8.12
21 to 25.....	6,872	3,976	37.60	57.86	2,896	27.39	42.14	47,406	42,760	8.39	6.77
25 to 30.....	4,466	3,090	29.22	69.19	1,376	13.01	30.81	52,633	48,364	5.87	2.84
30 to 35.....	1,726	1,148	10.86	66.51	578	5.47	33.49	43,129	39,910	2.66	1.45
35 to 40.....	909	605	5.72	66.56	304	2.87	33.44	39,868	35,013	1.52	.87
40 to 45.....	530	322	3.05	60.75	208	1.97	39.25	32,657	28,246	.99	.74
45 to 50.....	345	235	2.22	68.12	110	1.04	31.88	28,118	22,144	.83	.50
50 to 55.....	246	165	1.56	67.07	81	.77	32.93	24,089	18,125	.68	.45
55 to 60.....	143	98	.93	68.53	45	.43	31.47	16,423	12,562	.59	.36
60 to 65.....	130	91	.86	70.00	39	.37	30.00	13,028	10,595	.70	.37
65 to 70.....	72	53	.50	73.61	19	.18	26.39	8,306	6,575	.64	.29
70 to 75.....	44	37	.35	84.09	7	.07	15.91	5,417	4,210	.68	.17
75 to 80.....	13	12	.11	92.30	1	.01	7.69	2,587	2,144	.46	.05
80 and Over....	2	2	.02	100.00	.....	.....	.....	1,718	.....	.12	.....
Unknown Ages	111	46	.43	41.44	65	.61	58.56	210	150	21.90	43.33
Under 15.....	23	.....	.....	.....	23	.22	100.00	.....	40,810	.....	.06
15 to 20.....	4,068	250	2.36	6.15	3,818	36.11	93.85	48,238	56,575	.52	6.75
20 to 25.....	8,320	4,420	41.80	53.13	3,900	36.88	46.87	59,705	55,131	7.40	

[a] Population at ages at which marriages occurred.
[b] At which marriages occurred.

TABLE VIII.—*Exhibiting, for the State and Counties, by Sex, the Nativity and Age in Periods of Years, of Persons Married in Michigan during the Year ending December 31, 1873.*

STATE AND COUNTIES.	Number of Couples.	NATIVITY.									SEX STATED.	MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.													
		Native.	Foreign.	Foreign Males, Native Females.	Foreign Females, Native Males.	Females Unknown. Males. Native.	Females Unknown. Males. Foreign.	Males Unknown. Females. Native.	Males Unknown. Females. Foreign.	Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and Over.	Unknown.
STATE	10,574	6,127	2,191	1,316	707	63	34	32	3	99	Total	4,091	8,320	4,466	1,726	909	530	345	246	143	130	72	44	13	12	111
											Males	250	4,420	3,090	1,148	605	322	235	165	98	91	53	37	12	12	46
											Females	3,841	3,900	1,376	578	304	208	110	81	45	39	19	7	1	....	65
Alcona	4	1	2	1	.....	.....	.....	.....	.....	....	Males	.....	3	1	.....	....	....	....	....	....	....	....	....	....	....	....
											Females	3	1	.....	.....	....	....	....	....	....	....	....	....	....	....	....
Allegan	242	170	16	38	11	2	.....	2	.....	3	Males	2	125	58	15	13	5	10	2	2	4	3	3	....	....	....
											Females	103	78	29	6	9	4	4	3	2	2	....	2	....	....	....
Alpena	42	2	24	6	10	.....	.....	.....	.....	....	Males	.....	18	9	7	5	1	1	....	1	....	....	....	....	....	....
											Females	12	20	7	1	1	....	1	....	....	....	....	....	....	....	....
Antrim	42	16	9	14	3	.....	.....	.....	.....	....	Males	2	19	13	3	4	....	1	....	....	....	....	....	....	....	....
											Females	25	8	4	2	2	1	....	....	....	....	....	....	....	....	....
Barry	184	154	8	16	5	.....	.....	.....	.....	1	Males	6	76	57	9	7	8	6	5	1	4	2	2	1	....	....
											Females	72	68	17	6	2	4	0	3	5	1	....	....	....	....	....
Bay	150	48	52	26	19	3	.....	1	1	....	Males	.....	65	42	25	7	3	4	2	1	....	....	....	....	....	1
											Females	54	59	15	10	5	5	1	....	....	....	....	....	....	....	1
Benzie	23	11	5	2	3	1	.....	.....	.....	1	Males	1	10	8	2	1	....	....	1	....	....	....	....	....	....	....
											Females	8	8	5	1	....	....	1	....	....	....	....	....	....	....	....
Berrien	329	244	23	31	13	10	2	2	.....	4	Males	12	129	97	27	19	13	9	6	5	2	2	4	....	....	4
											Females	113	114	49	13	17	10	3	....	2	1	1	....	....	....	6
Branch	232	195	8	22	1	2	1	3	.....	....	Males	10	111	57	11	10	5	7	6	6	6	....	....	....	....	3
											Females	99	78	23	10	9	3	1	3	2	....	....	....	....	....	4
Calhoun	283	223	17	23	11	2	.....	2	.....	5	Males	7	128	77	25	24	5	2	4	6	....	1	3	1	....	....
											Females	90	121	39	12	8	4	3	1	2	....	1	1	....	....	1
Cass	204	180	3	13	6	1	.....	1	.....	....	Males	10	106	49	12	2	11	3	2	6	1	1	1	....	....	....
											Females	86	69	23	11	6	5	....	....	2	2	....	....	....	....	....

Charlevoix	17	6	3	4	4	.....	.....	.....	.....	.....	Males	1	8	3	1	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
											Females	8	4	1	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cheboygan	23	8	6	3	5	.....	1	.....	.....	.....	Males	.....	9	8	1	1	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
											Females	5	4	7	3	3	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chippewa	10	2	2	1	3	.....	.....	.....	.....	2	Males	.....	2	4	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
											Females	2	4	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clare	15	10	2	2	1	.....	.....	.....	.....	.....	Males	.....	6	8	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
											Females	9	3	1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Clinton	144	112	4	19	4	1	2	.....	.....	2	Males	5	63	40	10	4	6	4	5	1	2	2	1	1	.....	.....	.....	.....
											Females	68	37	21	4	4	5	1	2	1	.....	1	.....	.....	.....	.....	.....	.....
Delta [a]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eaton	179	152	2	11	7	2	1	.....	.....	4	Males	7	87	41	20	5	3	8	6	2	.....	.....	.....	.....	.....	.....	.....	.....
											Females	65	67	20	12	6	6	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Emmet	5	2	.....	3	.....	.....	.....	.....	.....	.....	Males	1	3	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
											Females	2	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Genesee	209	134	17	32	17	5	.....	1	.....	3	Males	5	91	57	17	12	7	6	8	.....	3	3	.....	.....	.....	.....	.....	.....
											Females	82	71	25	15	4	7	1	2	2	.....	.....	.....	.....	.....	.....	.....	.....
Gr. Traverse	31	17	6	4	4	.....	.....	.....	.....	.....	Males	1	7	13	4	4	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
											Females	15	9	4	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gratiot	121	94	5	13	7	1	.....	.....	.....	1	Males	10	56	22	11	7	2	4	5	1	.....	2	1	.....	.....	.....	.....	.....
											Females	62	34	11	2	5	2	2	1	.....	2	.....	.....	.....	.....	.....	.....	.....
Hillsdale	308	268	3	17	10	4	2	1	.....	3	Males	6	151	77	26	13	11	9	4	2	2	3	1	2	.....	1		
											Females	110	118	32	13	15	6	4	3	.....	1	2	.....	.....	.....	4		
Houghton	191	9	164	10	6	.....	1	.....	.....	1	Males	1	81	67	30	3	5	.....	3	.....	.....	.....	.....	.....	.....	.....	1	
											Females	59	91	23	10	4	.....	.....	2	.....	.....	1	.....	.....	.....	.....	1	
Huron	90	10	54	14	11	.....	.....	1	.....	.....	Males	5	40	32	4	4	3	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....
											Females	42	35	7	3	1	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Ingham	269	218	14	18	13	2	.....	1	.....	3	Males	10	109	79	23	19	8	5	4	4	4	3	.....	.....	.....	.....		1
											Females	92	108	27	17	8	6	5	2	1	1	.....	.....	.....	.....	.....		2
Ionia	292	209	25	34	19	.....	1	1	.....	3	Males	6	115	89	37	11	10	10	4	6	2	1	.....	1	.....	.....	.....	.....
											Females	112	100	40	17	6	8	3	2	2	2	.....	.....	.....	.....	.....	.....	.....
Iosco	46	10	18	12	6	.....	.....	.....	.....	.....	Males	.....	19	18	8	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
											Females	21	16	6	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Isabella	31	20	2	3	6	.....	.....	.....	.....	.....	Males	.....	12	11	1	2	1	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
											Females	15	8	4	1	.....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....

[a] No returns of marriages to this Department.

TABLE VIII.—CONTINUED.—*Marriages by Counties, Nativity, and Periods of Age.*

COUNTIES.	Number of Couples.	NATIVITY.									SEX STATED.	MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.													
		Native.	Foreign.	Foreign Males, Native Females.	Foreign Females, Native Males.	Females Unknown.		Males Unknown.		Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and Over.	Unknown.
						Males.		Females.																		
						Native.	Foreign.	Native.	Foreign																	
Jackson	281	216	22	22	16	.....	.....	4	.....	1	Males	12	113	74	30	25	8	5	3	3	5	2	....	....	1	....
											Females	88	115	39	17	10	4	3	2	1	....	1	....	....	....	1
Kalamazoo	290	222	24	28	14	1	1	.....	.....	....	Males	6	126	82	31	18	7	6	5	1	4	3	....	1	....	....
											Females	94	126	34	10	9	4	5	4	1	2	....	1	....	....	....
Kalkaska	4	1	1	2	.....	.....	.....	.....	.....	....	Males	.....	.....	2	1	....	1	....	....	....	....	....	....	....	....	....
											Females	2	1	1	.....	....	....	....	....	....	....	....	....	....	....	....
Kent	588	324	142	64	41	3	3	.....	.....	11	Males	7	249	176	66	41	18	19	7	6	2	1	1	....	....	1
											Females	200	216	95	33	20	4	6	5	1	1	2	....	....	....	5
Keweenaw	26	1	19	4	.....	.....	1	.....	.....	1	Males	1	9	10	4	1	....	....	....	....	....	....	....	....	....	....	1
											Females	10	9	4	2	....	....	....	....	....	....	....	....	....	....	....	1
Lake	11	4	2	2	3	.....	.....	.....	.....	....	Males	1	6	1	.....	1	....	....	....	....	1	....	....	1	....	....
											Females	6	3	.....	.....	....	....	1	....	1	....	....	....	....	....	....
Lapeer	187	79	34	42	28	1	1	1	.....	1	Males	5	75	55	25	10	8	3	1	2	3	....	....	....	....	....
											Females	76	74	18	10	2	4	2	....	....	1	....	....	....	....	....
Leelanaw	42	11	9	11	11	.....	.....	.....	.....	....	Males	1	21	6	3	5	4	1	1	....	....	....	....	....	....	....
											Females	15	16	4	5	1	1	....	....	....	....	....	....	....	....	....
Lenawee	454	375	28	25	17	6	.....	.....	.....	3	Males	18	219	103	41	33	14	7	7	3	4	2	2	....	....	1
											Females	167	164	64	26	8	15	6	1	1	....	....	....	....	....	2
Livingston	134	107	8	6	8	3	.....	.....	.....	2	Males	4	60	40	14	8	2	....	....	....	3	2	1	....	....	....
											Females	56	43	21	4	4	1	1	....	1	1	1	1	....	....	....
Mackinac	6	5	.....	.....	1	.....	.....	.....	.....	....	Males	.....	3	1	2	....	....	....	....	....	....	....	....	....	....	....	....
											Females	2	4	.....	.....	....	....	....	....	....	....	....	....	....	....	....
Macomb	200	113	36	26	24	.....	.....	.....	.. ...	1	Males	6	90	61	19	7	6	3	2	1	3	....	....	2	....	....
											Females	66	83	29	9	4	5	....	3	1	....	....	....	1	....	....
Manistee	97	23	60	11	2	.....	1	.....	.....	....	Males	2	36	36	13	6	2	....	....	....	....	....	....	....	....	....
											Females	39	32	16	8	1	1	1	....	....	....	....	....	....	....	....

Manitou	2		2								Males	1		2														
											Females			1														
Marquette	267	68	155	35	9						Males	3	93	104	37	20	6	2	2									
											Females	68	100	53	25	11	5	1	4									
Mason	41	11	17	8	5						Males		9	16	10	2	1					1						2
											Females	10	12	12	3	2												2
Mecosta	95	49	19	12	12	2	1				Males	5	32	35	11	6		2	1	2	1							
											Females	34	37	13	4	3	1			3								
Menominee	22	8	8	5	1						Males		6	8	7	1												
											Females	5	11	4	2													
Midland	49	33	4	6	6						Males	1	18	14	8	3				2	2		1					
											Females	21	17	4	1	1	2		1	1	1							
Missaukee	4	1	2	1							Males		3	1														
											Females	4																
Monroe	236	142	43	31	12		1	1		6	Males	2	97	56	27	8	6	7	6	3	3	2						19
											Females	74	83	28	18	6		2	3	2								20
Montcalm	171	109	24	19	14		1	1		3	Males	7	70	63	16	5	6		2				1					1
											Females	82	54	23	3	2	2	2	1				1					1
Muskegon	187	70	65	31	13	1	4			3	Males	3	67	59	26	11	10	9	1		1							
											Females	66	66	27	16	5	4	2	1									
Newaygo	81	58	6	8	7					2	Males	3	26	28	9	1	5	2	3		1		1					2
											Females	35	26	5	5	2	1	1	4			1						1
Oakland	239	169	16	33	12	1	1	2		5	Males	4	97	79	29	9	9	4		3	3							2
											Females	74	95	43	13	3	5	2	1		1							2
Oceana	31	21	5	4	1						Males		13	8	3	3		3		1								
											Females	16	10	1	1	2	1											
Ontonagon	21	5	3	10	3						Males		12	5		2	1	1										
											Females	10	8	1		1	1											
Osceola	62	22	15	13	12						Males	2	21	25	5	2	5				2							
											Females	28	21	8	1	1	1	2										
Ottawa	238	96	81	35	22		4				Males	5	92	54	43	17	4	7	3	2	2	4	5					
											Females	99	80	17	12	8	4	6	4		5	2						1
Presque Isle	7		7								Males		4	2	1													
											Females	5	2															
Saginaw	428	152	161	76	37					2	Males	2	167	142	47	36	13	8	6	3	2	1	1					
											Females	138	169	57	28	15	11	5	3		1							1

TABLE VIII.—CONTINUED.—*Marriages by Counties, Nativity, and Periods of Age.*

COUNTIES.	Number of Couples.	NATIVITY.									SEX STATED.	MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.													
		Native.	Foreign.	Foreign Males, Native Females.	Foreign Females, Native Males.	FEMALES UNKNOWN.		MALES UNKNOWN.		Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and Over.	Unknown.
						Males.		Females.																		
						Native.	Foreign.	Native.	Foreign.																	
Sanilac	89	14	36	24	14	1	----	----	----	----	Males	1	44	21	11	2	2	6	----	----	2	----	----	----	----	----
											Females	42	28	12	1	----	4	1	----	----		----	----	----	----	----
Schoolcraft	8	4	4	----	----	----	----	----	----	----	Males	----	5	1	1	----	----		----	----		----	----	----	----	1
											Females	4	1	2	----	----	----		----	----		----	----	----	----	1
Shiawassee	116	87	8	16	4	----	----	----	----	1	Males	----	50	32	15	7	5	1	----	3		1	1	1	----	----
											Females	45	44	13	7	1	1		2	1	1	1	----	----	----	----
St. Clair	290	66	134	48	28	----	1	----	----	13	Males	2	121	87	30	20	10		6	8		2	----	----	----	----
											Females	115	106	27	20	10	4	3	2	1		1	----	----	----	----
St. Joseph	276	225	20	21	10	----	----	----	----	----	Males	3	116	76	34	16	12	4	7	----		3	1	----	----	----
											Females	99	101	33	22	4	5	6	1	1	2	2	----	----	----	----
Tuscola	121	74	10	23	14	----	----	----	----	----	Males	6	59	33	10	7	----	3	1	1		1	----	----	----	----
											Females	77	24	14	1	3	1		----	----		1	----	----	----	----
Van Buren	261	221	5	17	13	2	----	1	1	1	Males	9	121	70	18	15	6	6	8	2	2	1	2	----	----	1
											Females	107	90	27	10	6	8	4	----	2	2	1	----	----	----	4
Washtenaw	234	139	38	38	13	3	2	1	----	----	Males	5	78	74	34	18	10	4	4	2	2	1	1	----	----	1
											Females	68	80	47	24	5	5		1	1	2	----	----	----	----	1
Wayne	932	262	419	164	71	4	1	5	1	5	Males	16	330	306	134	56	28	24	17	3	8	2	3	1	1	3
											Females	246	407	134	59	35	21	9	9	4	4	----	1	----	----	3
Wexford	30	15	5	3	4	1	----	----	----	2	Males	----	13	11	2	2	1		----	1		----	----	----	----	----
											Females	14	7	4	2	1	1		1	----		----	----	----	----	----

Table IX. shows, among other things, the number of cases in which ministers or justices of the peace violated the law of this State in "solemnizing" the marriage of persons under the legal age. It may be seen by this table that 3 boys and 124 girls were married in 1873 who were under the age specified by the law of this State as the lawful age. In 1872 the number of persons married who were under the lawful age was: boys, 5; girls, 148; in 1871 the number was: boys, 9; girls, 150; in 1870 the number was: boys, 3; girls, 116. From the above comparison it will be seen that in 1870 the number of illegal marriages returned is smaller than in any succeeding year; and that since 1871 the number has been constantly decreasing in each year, until the number in 1873 is nearly as small as in 1870,—the males being just the same in number, and the females being eight more. On the whole, the showing is encouraging, as indicating a general decrease in the number of illegal marriages solemnized.

The law of this State on this subject, printed in the back part of this Report, makes it illegal for any male under the age of eighteen years, or for any female under the age of sixteen years, to contract marriage; and the penalty to any person solemnizing such marriage is imprisonment in the county jail, or a fine, or both. If this penalty should be inflicted upon a few of these guardians of the social morals or custodians of the civil peace who persist in disobeying the law, the effect might be salutary.

TABLE IX.—*Exhibiting, for the State and Counties, the Total Number, and Number of each Sex, under 21 Years of Age; also, the Number of each Sex at each Age under that of Twenty-one Years, Returned as having been Married in Michigan during the Year ending December 31, 1873.*

STATE AND COUNTIES.	Persons Married Under 21 Years of Age.			Ages of Males.					Ages of Females.								
	Total.	Males.	Females.	Twenty.	Nineteen.	Eighteen.	Seventeen.[a]	Sixteen.[a]	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.[a]	Fourteen.[a]	Thirteen.[a]	Twelve.[a]
STATE	5,539	694	4,845	444	191	56	1	2	1004	1154	1221	785	557	101	21	1	1
Alcona	4	1	3	1	....	....	....	....	....	2	....	....	....	1	....	....	....
Allegan	141	8	133	6	1	1	....	....	30	28	27	22	21	4	1	....	....
Alpena	18	1	17	1	....	....	....	....	5	2	3	3	4	....	....	....	....
Antrim	32	5	27	3	2	....	....	....	2	6	9	5	4	1	....	....	....
Barry	105	14	91	8	4	2	....	....	19	17	26	20	5	2	2	....	....
Bay	85	7	78	7	....	....	....	....	24	16	21	10	6	....	....	....	1
Benzie	13	4	9	3	1	....	....	....	1	2	....	1	5	....	....	....	....
Berrien	173	29	144	17	10	2	....	....	31	27	46	21	17	2	....	....	....
Branch	146	28	118	18	7	3	....	....	19	34	27	22	12	3	1	....	....
Calhoun	141	20	121	13	5	2	....	....	31	36	27	18	9	....	....	....	....
Cass	129	21	108	11	7	3	....	....	22	34	24	18	10	....	....	....	....

[a] Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1462, 1463; printed also in back part of this Report.

TABLE IX.—CONTINUED.

COUNTIES.	Persons Married Under 21 Years of Age.			Ages of Males.					Ages of Females.								
	Total.	Males.	Females.	Twenty.	Nineteen.	Eighteen.	Seventeen.[a]	Sixteen.[a]	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.[a]	Fourteen.[a]	Thirteen.[a]	Twelve.[a]
Charlevoix	12	1	11	....	....	1	....	....	3	2	2	1	1	2	....	....	....
Cheboygan	6	.....	6	....	....	....	....	....		2	1	1	1	....	....	....	....
Chippewa	3	.....	3	....	....	....	....	....		1	....	1	....	....	....	....	....
Clare	11	.....	11	....	....	....	....	....		1	4	....	4	....	....	....	....
Clinton	92	10	82	5	3	2	....	....	14	19	23	13	11	2	....	....	....
Delta[b]	.....	.....	.....	....	....	....	....	....		....	....	....	....	....	....	....	....
Eaton	96	14	82	7	7	....	....	....	17	19	19	14	10	3	....	....	....
Emmet	6	3	3	2	1	....	....	....		....	....	....	2	....	....	....	....
Genesee	115	12	103	7	3	2	....	....	21	24	19	20	16	3	....	....	....
Grand Traverse	19	1	18	....	1	....	....	....	3	3	8	3	1	....	....	....	....
Gratiot	92	16	76	6	10	....	....	....	14	15	13	13	19	2	....	....	....
Hillsdale	160	28	132	22	5	1	....	....	22	37	27	27	12	5	2	....	....
Houghton	92	10	82	9	1	....	....	....	23	17	17	14	9	....	2	....	....
Huron	61	9	52	4	4	1	....	....	10	13	11	9	6	3	....	....	....
Ingham	148	28	120	18	8	2	....	....	28	30	32	15	13	2	....	....	....
Ionia	155	20	135	14	6	....	....	....	23	32	37	23	19	1	....	....	....
Iosco	25	2	23	2	....	....	....	....	2	10	7	3	1	....	....	....	....
Isabella	18	.....	18	....	....	....	....	....	3	5	4	1	3	2	....	....	....
Jackson	135	19	116	7	8	4	....	....	28	22	32	17	13	4	....	....	....
Kalamazoo	141	18	123	12	4	2	....	....	29	25	30	24	13	2	....	....	....
Kalkaska	2	.....	2	....	....	....	....	....		....	....	....	2	....	....	....	....
Kent	281	26	255	19	5	2	....	....	55	62	66	36	25	10		....	....
Keweenaw	16	2	14	1	1	....	....	....		1	5	1	3	..		....	....
Lake	9	2	7	1	1	....	....	....		2	....	1	2	..		....	....
Lapeer	104	15	89	10	3	2	....	....	13	14	30	16	13	2		1	....
Leelanaw	21	1	20	....	1	....	....	....	5	3	6	3	2	1		....	....
Lenawee	255	47	208	29	15	3	....	....	41	58	55	32	19	3		....	....
Livingston	74	9	65	5	2	2	....	....	9	15	22	12	6	1		....	....
Mackinac	3	.....	3	....	....	....	....	....		....	....	2	....	..		....	....
Macomb	95	15	80	9	3	3	....	....	16	19	25	10	9	..	1	....	....
Manistee	48	3	45	1	2	....	....	....	5	9	13	10	5	2	1	....	....
Manitou	1	.....	1	....	....	....	....	....		....	1	....	....	..		....	....
Marquette	107	11	96	8	2	....	....	1	28	19	21	12	12	4		....	....
Mason	13	1	12	1	....	....	....	....	2	2	4	3	1	..		....	....

[a] Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1402, 1403; printed also in back part of this Report.
[b] No returns of marriages to this Department.

TABLE IX.—Continued.

COUNTIES.	Persons Married Under 21 Years of Age.			Ages of Males.					Ages of Females.								
	Total.	Males.	Females.	Twenty.	Nineteen.	Eighteen.	Seventeen.[a]	Sixteen.[a]	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.[a]	Fourteen.[a]	Thirteen.[a]	Twelve.[a]
Mecosta	57	11	46	6	4	1	....	....	12	4	13	7	8	2	....	....	....
Menominee	6	.....	6	....	....	....	....	....	1	2	....	....	3	....	....	....	....
Midland	30	3	27	2	1	....	....	....	6	3	7	5	6	....	....	....	....
Missaukee	4	.....	4	....	....	....	....	....	....	....	....	1	2	1	....	....	....
Monroe	112	10	102	8	....	1	1	....	28	17	30	16	9	1	1	....	....
Montcalm	112	15	97	8	6	1	....	....	15	21	19	18	20	3	1	....	....
Muskegon	93	9	84	6	2	1	....	....	18	18	26	11	7	3	1	....	....
Newaygo	55	7	48	4	2	1	....	....	13	10	5	10	8	1	1	....	....
Oakland	111	15	96	11	4	....	....	....	22	22	25	19	5	3	....	....	....
Oceana	18	2	16	2	....	....	....	....	....	5	2	5	2	1	1	....	....
Ontonagon	16	1	15	1	....	....	....	....	5	2	2	5	1	....	....	....	....
Osceola	37	3	34	1	2	....	....	....	6	4	10	7	6	1	....	....	....
Ottawa	135	16	119	11	4	1	....	....	20	37	27	17	14	4	....	....	....
Presque Isle	5	.....	5	....	....	....	....	....	....	1	2	....	1	....	1	....	....
Saginaw	196	15	181	13	1	1	....	....	43	40	41	35	18	3	1	....	....
Sanilac	50	3	47	2	....	1	....	....	5	13	13	10	4	2	....	....	....
Schoolcraft	4	.....	4	....	....	....	....	....	....	1	2	1	....	....	....	....	....
Shiawassee	67	5	62	5	....	....	....	....	17	14	15	9	6	1	....	....	....
St. Clair	150	15	135	13	2	....	....	....	20	41	44	18	12	....	....	....	....
St. Joseph	136	16	120	13	3	....	....	....	21	33	37	17	12	....	....	....	....
Tuscola	98	9	89	3	4	1	....	1	12	16	24	18	16	2	1	....	....
Van Buren	162	25	137	16	6	3	....	....	30	43	24	19	18	3	....	....	....
Washtenaw	98	16	82	11	2	3	....	....	14	24	26	5	13	....	....	....	....
Wayne	367	36	331	20	15	1	....	....	85	96	79	50	19	1	1	....	....
Wexford	17	1	16	1	....	....	....	....	2	2	4	5	1	2	....	....	....

[a] Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1462, 1463; printed also in back part of this Report.

Table X. shows that the 250 males who were married under 20 years of age married females as follows: 201, under 20 years of age; 45, 20 to 25 years; 3, 25 to 30 years; and 1, 35 to 40 years old. Similarly, the 3,841 females who were married under 20 years of age married males as follows: 201, under 20 years of age; 2,323, 20 to 25 years; 998, 25 to 30 years; 222, 30 to 35 years; 60, 35 to 40 years; 20, 40 to 45 years; 8, 45 to 50 years; 7, 50 to 55 years; 1, 55 to 60 years; and 1 whose age was unknown.

It may be seen that the largest number of males and of females were married between the ages of 20 and 25 years; the next largest number of males were married between the ages of 25 and 30 years, and the next largest number of females were married under 20 years of age. What is stated above of males married in 1873 is true of males married in each of the preceding years, and the statements concerning females are true for each preceding year except 1872, when the largest number was of those aged under 20 years, and the next largest of those aged 20 to 25 years. It will be seen that in each year the number of females married under the age of 20 years, and the number married between the ages of 20 and 25 years, are very nearly equal.

TABLE X.—*Exhibiting the Number of each Sex at each Period of Age, who were Married in Michigan during the Year 1873; the Number of each Sex at each Period of Age who were United to the Opposite Sex at each Period of Age; and the Per Cent. of Brides and of Bridegrooms at each Period of Age to Total at All Ages.*

AGES OF MALES.	AGES OF FEMALES.														Total Males.	Per Cent. of Grooms at Each Age.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Unk'n.		
Under 20	201	45	3	....	1	....	....		....	....	....		....	....	250	2.35
20 to 25	2,323	1,809	233	30	14	3	..		....	....	....		....	7	4,420	41.69
25 to 30	998	1,376	559	116	26	7	..		....	....	....		....	7	3,090	29.22
30 to 35	222	423	286	150	47	12	5		....	....	....		....	2	1,148	10.87
35 to 40	60	140	153	139	78	24	9		....	....	....		.	2	605	5.73
40 to 45	20	66	66	64	46	38	15	6	....	1	....		.	....	322	3.05
45 to 50	8	27	41	39	34	54	23		....	....	....		.	1	235	2.22
50 to 55	7	7	25	24	27	34	16	18	4	1	1		.	1	165	1.56
55 to 60	1	2	9	8	18	11	12	20	11	5	1		.	....	98	.93
60 to 65	.....	3	.....	6	5	15	17	12	14	15	4		.	....	91	.86
65 to 70	.....	.....	1	1	6	5	7		8	7	6	2	.	....	53	.50
70 to 75	.....	1	.....	1	2	4	5	4	6	8	3	3	.	....	37	.35
75 to 80	.....	.....	.....	..	....	....	1		2	2	4	1	1	....	12	.11
80 and Over	.....	1	.....	..	....	1	..		....	....	....	....	.	....	2	.02
Unknown	1	.....	.....	..	....	....	..		....	....	....	....	.	45	46	.43
Total Females	3,841	3,900	1,376	578	304	208	110	81	45	39	19	7	1	65	10,574	.....
Per Cent. of Brides at each age	36.32	36.88	13.01	5.47	2.87	1.97	1.04	.77	.43	.37	.18	.07	.01	.61	.....	100.00

Table XI. exhibits some details concerning marriages with great disparity between the ages of the bridegroom and the bride.

The greatest disparity in 1873, as shown by the returns of the county clerks to this Department, was in Jackson county, the difference between the ages of the bridegroom and bride being 59 years. In 1872 the greatest disparity was 55 years, as shown for Benzie county. In 1871 the greatest disparity was 55 years, in Hillsdale county.

TABLE XI.—*Marriages with Great Disparity of Ages, in Michigan during the Year ending December 31, 1873.*

COUNTIES.	BRIDEGROOM OLDEST.			BRIDE OLDEST.		
	Occupation of Bridegroom.	Age of Bride-groom.	Age of Bride.	Occupation of Bridegroom.	Age of Bride-groom.	Age of Bride.
Allegan	Physician	65	34	Farmer	25	53
Alpena	Miner	40	19	Tavern keeper	24	39
Barry	Farmer	77	48			
Bay	Laborer	30	12			
Berrien	Farmer	65	35	Farmer	19	39
Branch	Farmer	60	24			
	Farmer	56	16	Laborer	24	36
Calhoun	Farmer	72	32			
Cass	Farmer	54	23	Farmer	21	36
Cheboygan	Architect	51	26	Fisherman	21	54
Clinton	"M. D."	52	20			
Eaton	Mechanic	46	16			
Genesee	Laborer	62	30	Mechanic	22	40
Gratiot	Physician	65	26			
Hillsdale	Farmer	51	17			
Houghton	Farmer	33	14	Laborer	53	66
Huron	Book Agent	65	38			
Ingham	Carpenter	64	23	Farmer	27	43
Ionia	Miller	59	29			
Isabella	Farmer	50	16			
Jackson	Farmer	80	21			
Kalamazoo	Farmer	53	22	Mason	32	50
Kalkaska	Farmer	40	16			
Kent	Farmer	51	17			
Lapeer	Farmer	60	33			
Lenawee	Laborer	41	17			
Lenawee	Farmer	70	40			
Livingston	Farmer	69	41			

TABLE XI.—CONTINUED.

COUNTIES.	BRIDEGROOM OLDEST.			BRIDE OLDEST.		
	Occupation of Bridegroom.	Age of Bride-groom.	Age of Bride.	Occupation of Bridegroom.	Age of Bride-groom.	Age of Bride.
Manistee	Lumberman	40	16			
Marquette	Steamboat Captain	43	20	Miner	24	36
Mason	Farmer	[a] 66	[a] 36			
Mecosta	Farmer	36	17	Station Agent	22	49
Midland	Laborer	[b] 72	[b] 44			
Monroe	Farmer	45	20			
Montcalm	Barber	[a] 35	[a] 18			
Muskegon	Farmer	49	21	Farmer	22	35
Newaygo	Farmer	[a] 45	[a] 17			
Oakland	Peddler	60	34			
Oceana	Farmer	35	15			
Osceola	Carpenter	62	34			
Ottawa	Farmer	66	38			
Saginaw	Farmer	74	21	Laborer	23	39
Sanilac	Farmer	42	19			
Shiawassee	Farmer	71	39			
St. Clair	Farmer	52	19			
	Farmer	57	23			
St. Joseph	Baker	50	19			
Tuscola	Farmer	52	30			
Van Buren	Farmer	[c] 53	[c] 17	Farmer	23	36
Washtenaw	Shoemaker	57	20			
Wayne	Farmer	86	42	Farmer	49	73

[a] Color unknown. [b] Male white, female unknown color. [c] Indian.

TABLE XII.—*Exhibiting, for the State and Counties, the Number of Marriages in Michigan during each of the Years 1868 to 1873, inclusive, Returned previous to May 1, 1875; for the Years 1869 to 1872, inclusive, the Number first returned to the State Department and the Number returned since Compilation for 1872; the Population, June 1, 1870; the Number of Inhabitants in 1870 to one Marriage in 1873; and the Per Cent. of Marriages in 1873 to Population in 1870.*

STATE AND COUNTIES.	MARRIAGES.													Population, June 1, 1870, represented by Marriages in 1873.	Number of Inhabitants June 1, 1870, to one Marriage in 1873.	Per Ct. of Marriages in 1873, to Population, June 1, 1870.[a]
	1868.	1869.			1870.			1871.			1872.			1873.			
	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since first Compilation.	Number returned previous to May 1, 1875.	Number Returned.			
STATE	8,647	8,459	7	10,303	9,160	29	9,736	10,181	70	10,528	9,882	655	10,537	10,574	1,181,841	112	.89
Alcona	.....	5	.....	7	8	.....	8	3	.....	4	8	.....	8	4	[b] 766	192	.52
Allegan	239	260	.....	260	277	.....	278	215	.....	215	251	.....	251	242	32,105	133	.75
Alpena	24	42	.....	44	6	.....	8	26	2	31	54	4	58	42	2,756	66	1.52
Antrim	15	14	.....	14	16	.....	16	18	.....	18	20	.....	20	42	1,985	47	2.12
Barry	148	140	.....	168	169	2	172	156	.....	156	156	.....	156	184	22,200	121	.83
Bay	115	86	.....	92	125	.....	126	118	.....	118	175	.....	175	150	15,900	106	.94
Benzie	.....	12	.....	12	18	.....	18	17	.....	17	14	.....	14	23	2,184	95	1.05
Berrien	449	314	.....	393	288	1	365	377	.....	398	381	66	447	329	35,104	107	.94
Branch	264	235	.....	275	265	1	273	263	5	269	241	11	252	232	26,227	113	.88
Calhoun	283	164	.....	278	280	.....	291	270	.....	276	347	8	355	283	36,571	129	.77
Cass	224	149	1	182	188	.....	190	199	.....	200	204	2	206	204	21,006	103	.97
Charlevoix	.....	6	.....	6	18	.....	18	18	.....	18	17	2	19	17	1,724	101	.99

[a] Except Delta county, from which no returns in 1873 were received.
[b] Includes population of unorganized county of Oscoda.

TABLE XII.—CONTINUED.—*Marriages Corrected by Counties.*

COUNTIES.	MARRIAGES.														Population, June 1, 1870, represented by Marriages in 1873.	Number of Inhabita'ts June 1, 1870, to one Marriage in 1873.	Per Ct. of Marriages in 1873, to Population, June 1, 1870.[a]
	1868.	1869.			1870.			1871.			1872.			1873.			
	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since first Compilation.	Number returned previous to May 1, 1875.	Number Returned.			
Cheboygan	9	5	.....	15	14	.....	14	21	.....	21	7	.....	7	23	2,197	96	1.05
Chippewa	.....	.....	.....	13	13	.....	13	11	.....	11	7	.....	7	10	1,690	169	.59
Clare	.....	.....	.....	.....	.....	.....	.....	13	.....	13	8	.....	8	15	366	24	4.10
Clinton	191	156	.....	218	177	.....	181	168	1	176	151	11	162	144	22,851	159	.63
Delta	15	.....	.....	6	21	.....	21	15	.....	15	21	.....	21	.....	.....	.....	.....
Eaton	161	143	1	199	211	2	214	225	1	227	239	1	240	179	25,163	141	.71
Emmet	15	12	.....	13	11	.....	11	14	.....	14	9	.....	9	5	1,211	242	.41
Genesee	277	248	.....	342	306	.....	323	254	3	283	286	2	288	209	33,805	162	.62
Grand Traverse	52	31	.....	36	20	.....	20	33	.....	33	32	1	33	31	4,443	143	.70
Gratiot	85	90	.....	90	74	.....	74	110	1	111	80	4	84	121	11,808	98	1.02
Hillsdale	277	223	.....	330	320	.....	325	322	.....	324	335	.....	335	308	31,688	103	.97
Houghton	66	63	.....	72	.....	.....	25	90	.....	90	106	.....	106	191	13,882	73	1.38
Huron	47	67	.....	67	72	.....	72	63	.....	63	87	.....	87	90	9,048	101	.90
Ingham	120	108	.....	221	208	.....	214	235	1	239	217	1	218	269	25,268	94	1.06
Ionia	224	206	.....	242	211	1	217	249	3	252	259	.....	259	292	27,675	95	1.06
Iosco	13	14	.....	14	28	.....	28	44	.....	44	44	2	46	46	[b] 3,175	69	1.45
Isabella	49	32	.....	32	37	.....	37	38	1	39	38	4	42	31	4,113	133	.75
Jackson	289	236	.....	351	214	2	342	307	3	330	304	8	312	281	36,040	128	.78

Kalamazoo	300	231		335	330		333	300	5	314	341	4	345	290	32,063	111	.90
Kalkaska								3		3	5		5	4	424	100	.04
Kent	401	505	1	525	399	1	425	489	2	492	544	12	556	558	50,410	86	1.17
Keweenaw											1		1	26	4,206	162	.62
Lake											8		8	11	548	50	2.01
Lapeer	140	139		173	184		185	155		159	158	2	160	187	21,342	114	.88
Leelanaw	46	42		43	29		29	43		45	29	2	31	42	4,577	109	.92
Lenawee	424	325		484	393		422	419		435	483	1	484	454	45,601	100	1.00
Livingston	142	119		142	108		116	139		148	160		160	134	19,335	144	.69
Mackinac					16		16							6	1,715	286	.35
Macomb	185	161	1	217	206		208	228		231	152	6	158	200	27,619	138	.72
Manistee	28	68		83	81		84	85		85	51		51	97	6,074	63	1.60
Manitou								4		4		3	3	2	891	446	.22
Marquette	45	75		81	145		145	145		145	190	4	194	267	14,278	53	1.87
Mason	23	27		27	25		26	36		36	29	1	30	41	3,266	80	1.26
Mecosta	57	74		82	56		56	62		62	76	9	85	95	5,645	59	1.68
Menominee	13	11		11	4		4	8		9	16	1	17	22	1,895	86	1.16
Midland	28	27		27	29	1	31	25	1	26	30	3	33	49	3,283	67	1.49
Missaukee					1		1	1		1	4		4	4	130	33	3.08
Monroe	148	213		229	204		221	206		227	204		204	236	27,475	116	.86
Montcalm	80	88		96	90		90	125		125	137	3	140	171	13,641	80	1.26
Muskegon	71	153		153	101		101	129		132	157	7	164	187	14,892	80	1.26
Newaygo	54	53		58	47		59	66		66	69		69	81	7,292	90	1.11
Oakland	208	330		334	311		321	334	1	350	266	34	300	239	40,906	171	.58
Oceana	81	64		79	54	7	61	60		60	48	4	52	31	7,222	233	.43
Ontonagon	13	15		15	9		11	6		6	12		12	21	2,846	136	.74

[a] Except Delta county, from which no returns in 1873 were received.
[b] Includes population of unorganized county of Ogemaw.

TABLE XII.—CONTINUED.—*Marriages Corrected by Counties.*

COUNTIES.	MARRIAGES.														Population, June 1, 1870, represented by Marriages in 1873.	Number of Inhabita'ts June 1, 1870, to one Marriage in 1873.	Per Ct. of Marriages in 1873, to Population, June 1, 1870.[a]
	1868.	1869.			1870.			1871.			1872.			1873.			
	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since last Report.	Number returned previous to May 1, 1875.	Number first returned and published in Report.	Number returned since first Compilation.	Number returned previous to May 1, 1875.	Number Returned.			
Osceola	.....	15	.....	15	14	.....	14	31	.....	31	46	1	47	62	2,104	34	2.94
Ottawa	207	177	.....	215	180	.....	187	202	.....	204	187	3	190	238	26,650	112	.89
Presque Isle	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	4	7	355	51	1.97
Saginaw	153	182	.....	188	309	.....	310	382	3	389	449	6	455	428	39,098	91	1.09
Sanilac	92	91	.....	107	91	.....	100	96	.....	112	102	14	116	89	14,565	164	.61
Schoolcraft	.....	.....	.....	.....	2	.....	2	.....	.....	.....	5	.....	5	8	799	100	1.00
Shiawassee	158	129	.....	170	114	1	123	146	4	154	106	26	132	116	20,822	180	.56
St. Clair	245	264	.....	278	285	.....	308	304	1	339	325	14	339	290	36,750	127	.79
St. Joseph	290	289	.....	313	231	.....	236	309	.....	330	268	.....	268	276	26,272	95	1.05
Tuscola	77	74	1	75	97	4	101	111	.....	114	129	2	131	121	13,715	113	.88
Van Buren	227	179	.....	234	208	.....	213	221	2	226	232	1	233	261	28,835	111	.91
Washtenaw	287	300	.....	364	288	1	322	300	1	309	270	55	325	234	41,440	177	.56
Wayne	793	904	2	1,151	919	5	976	1,111	29	1,145	462	309	771	932	119,068	128	.78
Wexford	.....	4	.....	4	5	.....	5	8	.....	9	9	1	10	30	650	22	4.02

[a] Except Delta county, from which no returns in 1873 were received.

EXHIBIT D.—*Number of Inhabitants to one Marriage, as stated for Different Foreign Countries, the United States, and some of the States of the Union. The Statements for Michigan include only the Inhabitants of Counties represented by Returns of Marriages.*

COUNTRY, STATE, OR CITY.	Year for which the Statem't is Made.	Inhabitants to one Marriage Annually.	COUNTRY, STATE, OR CITY.	Year for which the Statem't is Made.	Inhabitants to one Marriage Annually.
Austria	-------	117	Minnesota [a]	1870	116
Bavaria	-------	160	Massachusetts [b]	1870	98.9
Belgium	-------	122	Massachusetts [b]	1871	94.9
Denmark	-------	129	Massachusetts [b]	1872	94.9
England	-------	122	Massachusetts [b]	1873	95.6
Finland	-------	141	New Jersey [c]	1870	135
France	-------	122	New York City [d]	1869	108
Greece	-------	174	New York City [e]	1870	118
Holland	-------	129	New York City [e]	1873	112.7
Norway	-------	124	Philadelphia [e]	1873	98.2
Prussia	-------	106	England [f]	1873	113.6
Russia	-------	111	Michigan [g h]	1869	108.8
Saxony	-------	107	Michigan [g]	1870	119.5
Spain	-------	141	Michigan [g h]	1871	117.0
Sweden	-------	135	Michigan [g h]	1872	122.9
United States	1860	122	Michigan [h]	1873	128.2
New York	1860	135			
Massachusetts	1865	97			
Ohio	-------	105			
Minnesota	1860	110			
Minnesota	1868	107			

Taken from "Statistics of Minnesota for 1869."

[a] Taken from Statistics of Minnesota for 1870.

[b] Computed from data in Reg. Reports of Massachusetts for the respective years, the estimated population on page 6 of Report for 1874 being used in the statements for 1871, 1872, and 1873.

[c] There were 16 townships from which no returns of marriages were received. Computed from data in Reg. Report of New Jersey for 1870.

[d] Computed from data in Report of Met. Board of Health for 1869.

[e] Computed from data in Report of Board of Health for 1873.

[f] Computed from data in 36th Annual Report of the Registrar-General, of England.

[g] Marriages corrected up to May 1, 1875.

[h] Population estimated from Censuses of 1860 and 1870.

DEATHS.

The number of deaths returned as having occurred in Michigan in 1873, including 69 the month of occurrence of which was not stated, was 14,258,—an increase of 887 over the number returned for 1872, of 4,530 over the number for 1871, of 3,492 over the number for 1870, of 5,113 over 1869, and an increase of 6,023 over the number of deaths shown for 1868. It will thus be seen that the number of deaths returned for 1873 is greater than for any previous year, although the excess over 1872 is comparatively small.

To the question whether the deaths were increased or the returns more complete, it may be replied that the evidence at hand leads to the belief that the increase over the number returned for the year 1872 was due to more complete returns, and that the actual death-rate in Michigan was less in 1873 than in 1872. The nature of this evidence is as follows: By the method of correction employed in order to learn from the deaths returned the number which probably occurred, it was found that the deaths which probably occurred in 1872 were 21,071; and that the number returned were 63.31 per cent. of that number. By the same method of correction it is found that the deaths which probably occurred in 1873 were 20,243; and, disregarding the few deaths for which the month of occurrence was not stated, the number returned (14,189) is 70.09 per cent. of the number which probably occurred. Subtracting 20,243 from 21,071 we find the number of deaths which probably occurred to be 828 less in 1873 than in 1872. It should be borne in mind that the population of the State is increasing. The U. S. Census of 1870 showed such an increase since 1860 as that the inhabitants at the beginning of each year should be increased by 4.69 per cent. in order to equal the population at the beginning of the following year. (See page lxxx., Statistics of Mich., 1870.) If the 21,071 deaths which probably occurred in Michigan in 1872 be increased by 4.69 per cent., because of supposed increase of population, the number would equal 22,059, which is 1,816 more deaths than are shown by the fourth line in Exhibit C, as the probable number which occurred in 1873.

If we increase the 13,371 deaths returned for 1872 by 4.69 per cent. we find that, at the same death-rate, and in order to correspond with the increase of population, the number returned for 1873 should be 13,998, which is only 191 less than the number returned for 1873, disregarding the number in unknown month. It will be seen, however, that the per cent. which the deaths returned are of those which probably occurred, according to the method of correction employed, was 63.31 in 1872, and 70.09 in 1873. So far as it goes, the result of the correction indicates that the returns were more complete for the year

1873 than for 1872, yet it is not claimed that absolute truth is attained by the method of correction,—it is possible that some unusual relation of the death-rate in December to that in January may have vitiated the evidence of the computation. The correction by months is shown in Exhibit C, and the methods, and reasons why, were fully explained on pages 166 and 167 in the last Report—for 1872. In order to enable the reader to estimate for himself from numbers further on in the Report, it may be stated here that to make the deaths returned equal those which probably occurred they should be increased by 42.67 per cent., or be multiplied by 1.43.

TABLE I.—*Deaths in Michigan by Quarters of the Year, Exhibiting the Number and Per Cent. of Total Returned for each of the Years 1868, 1869, 1870, 1871, 1872, and 1873.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.		1873.	
	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.
Totals	8,235	100.00	9,145	100.00	10,766	100.00	9,728	100.00	13,371	100.00	14,258	100.00
March	1,789	21.70	1,758	19.22	1,698	15.77	1,888	19.41	2,299	17.19	3,211	22.52
June	* 1,568	19.04	1,994	21.80	2,121	19.70	2,097	21.55	2,934	21.94	3,335	23.39
September	2,771	33.64	2,949	32.24	3,920	36.41	2,926	30.08	4,441	33.21	4,182	29.33
December	2,046	24.84	2,396	26.20	2,992	27.79	2,760	28.37	3,667	27.43	3,461	24.28
Unknown	63	.76	48	.52	35	.32	57	.59	30	.22	69	.48
Average	2,058.75	25.00	2,286.25	25.00	2,691.50	25.00	2,432.00	25.00	3,342.75	25.00	3,564.50	25.00

* The number of deaths for the month of April, 1868, was increased by one-fifth of the number published in the Second Registration Report, because of first five days not accounted for.

The order of succession of the quarters of the year, greatest number first, for each year except 1868, is: September, December, June, March. In 1868, the number for the quarter ending with March is greater than for that ending with June; but this is probably due to the fact that the deaths in the quarter ending March, 1868, were collected during the quarter immediately following, and hence before so much time had passed as had elapsed between the time of the occurrence and the enumeration of the deaths in the corresponding quarter of other years, while the deaths in the quarter ending with June, 1868, were not enumerated until the time of making the assessment in the Spring of 1869.

The averages of deaths as returned, and as corrected to include those which probably occurred, excluding those in unknown month, are as follows:

Periods of Time.	As Returned.	As Corrected
Average number per quarter	3,547.25	5,060
Average number per month	1,182.42	1,6
Average number per week	272.87	
Average number per day	38.87	

TABLE II.—*Deaths in Michigan by Months, Exhibiting the Number and Per Cent. of Total Returned for the Years 1868, 1869, 1870, 1871, 1872, and 1873, the Months arranged in Order by Number of Deaths, the greatest Number first.*

Order.	1868.			1869.			1870.			1871.			1872.			1873.		
	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.
	Year....	8,235	100.00	Year....	9,145	100.00	Year....	10,766	100.00	Year....	9,728	100.00	Year....	13,371	100.00	Year....	14,258	100.00
1..	Sept.....	1,041	12.51	Sept.....	1,194	13.05	Aug.....	1,473	13.59	Aug.....	1,083	11.13	Aug.....	1,738	13.00	Aug.....	1,535	10.77
2..	Aug.....	983	11.93	Aug.....	1,068	11.60	Sept.....	1,363	12.66	Sept.. ..	1,055	10.84	Sept.....	1,653	12.36	Sept.....	1,471	10.32
3..	Oct.....	776	9.42	Oct.....	874	9.55	Oct	1,132	10.51	Dec.	1,029	10.58	Oct.....	1,321	9.88	Oct.....	1,258	8.83
4..	July....	747	9.07	Dec.	836	9.14	July....	1,084	10.06	Oct.....	933	9.59	Dec.	1,288	9.63	Mar.....	1,248	8.75
5..	Mar. ...	669	8.12	Mar.	761	8.32	Nov.....	933	8.66	Nov.....	708	8.20	April ...	1,140	8.53	July....	1,176	8.25
6..	Dec.	668	8.11	April....	712	7.78	Dec.	927	8.61	July....	788	8.10	Nov.....	1,058	7.91	April ...	1,174	8.23
7..	Nov.	602	7.31	July....	687	7.51	June....	754	7.00	Mar.....	781	8.03	July....	1,050	7.85	Dec.	1,136	7.97
8..	Feb.	583	7.07	Nov.....	686	7.50	Mar.	724	6.73	May	750	7.71	May	979	7.32	May	1,121	7.87
9..	April ..a	a 583	7.07	May	652	7.13	May	689	6.39	April ...	721	7.41	Mar.	941	7.04	Feb.	1,104	7.74
10..	Jan.....	535	6.49	June....	630	6.89	April....	678	6.29	June....	626	6.43	June....	815	6.10	Nov.....	1,067	7.49
11..	May	503	6.10	Feb.	561	6.13	Feb.	553	5.13	Feb.	578	5.94	Feb.	756	5.65	June....	1,040	7.30
12..	June....	492	5.85	Jan.....	436	4.77	Jan.....	421	3.91	Jan.....	529	5.44	Jan.	602	4.50	Jan.	859	6.02
....	Unk'n ..	63	.76	Unk'n ..	48	.52	Unk'n ..	35	.32	Unk'n ..	57	.59	Unk'n ..	30	.22	Unk'n ..	69	.48
....	Average	686.25	8.33	Average	762.08	8.33	Average	897.16	8.33	Average	810.66	8.33	Average	1,114.25	8.33	Average	1,188.17	8.33

a The number of deaths for April, 1868, is increased by one-fifth of the number published in the Second Registration Report, for the reason that the first five days of that month were not included in that Report. The number for the last twenty-five days was 486; 486 ÷ 5 = 97; 486 + 97 = 583=estimated number of deaths for April, 1868.

In Table II., August heads the list, and September follows, as is the case in each of the three years preceding 1873. In 1868 and 1869, September shows the largest number of deaths, and August the next largest. In 1873 the proportion of deaths was more evenly distributed over the entire year than in any previous year. This fact is graphically shown in Diagram No. 3 on a following page, and it is interesting to study these unusual death-rates by months, with a view to learning the coincident conditions. For this purpose, it is necessary to study the deaths which probably occurred in each month, and to equalize the months to uniform length, and as it is not believed that the deaths as returned and as tabulated in Table II. are in the correct proportion by months, this study is postponed, to be taken up in connection with Exhibit C and Diagram No. 3, wherein are exhibited by months the deaths, corrected for omissions in the enumeration.

TABLE III.—*Number and Per Cent. of Deaths of Males and of Females from All Causes, as Returned, by Months. (Unknown Sex Excluded.)*

YEAR AND MONTHS.	Number.		Per Cent. of Each Sex.			Males to 100 Females.
	Males.	Females.	Males.	Females.	Excess of Males.	
Year, 1873	7,651	6,590	53.73	46.27	7.46	116.1
January	446	413	51.92	48.08	3.72	108.0
February	583	520	52.86	47.14	5.82	112.1
March	647	601	51.04	48.16	3.76	107.7
April	630	541	53.80	46.20	7.54	116.5
May	586	535	52.27	47.73	4.54	109.5
June	567	471	54.62	45.38	9.24	120.4
July	613	561	52.21	47.79	4.44	109.3
August	841	693	54.82	45.18	9.64	121.4
September	777	694	52.82	47.18	5.64	112.0
October	697	560	55.45	44.55	10.90	124.5
November	588	476	55.26	44.74	10.52	123.5
December	640	493	56.49	43.51	12.18	129.8
Unknown Month	36	32	52.94	47.06	5.88	112.5

Table III. shows an excess of deaths of males for every month of the year, the greatest excess being in December, the least in January. In 1872 the greatest excess was in April, the least in July.

Exhibit A shows the number of deaths by sex of decedents by months equalized to uniform length. As thus equalized, August shows the largest per cent. of deaths, and September next, as is the case in 1870 and 1872; but in 1871 the largest per cent. was shown for September, the next for August. In each year, however, the per cent. in August does not greatly differ from that in September.

In each of the years 1870–1873, the smallest per cent. of deaths occurred in January, according to the returns, though probably not in reality. It seems to be necessary to exhibit the deaths as returned; but, in studying the deaths by months, the compiler has greater confidence in the tables of deaths corrected for omissions in the enumeration. Just what changes in the order by months are effected by the correction may be seen by examining Exhibit B, which also permits of comparisons between different States, and between different years in some of the States.

EXHIBIT A.—*Decedents of each Sex, and Total Number of Deaths, in Michigan during the Year 1873, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent. of Deaths in each Month to Total Deaths during the Year; and Per Cent. and Excess of Per Cent. of Deaths of each Sex to Total of Both Sexes.*

YEAR AND MONTHS.	Number of Deaths, as Equalized, 1873.				Per Ct. of Deaths in Each Month to Total during the Year.				Per Ct. of Each Sex to Total of Both Sexes, Unknown Excluded.		
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Males.	Females.	Excess of Males.
Year, 1873	14,272	7,657	6,598	17	100.00	100.00	100.00	100.00	53.71	46.29	7.42
January	844	438	406	.....	5.91	5.72	6.15	.....	51.90	48.10	3.80
February	1,200	634	565	1	8.41	8.28	8.56	5.88	52.88	47.12	5.76
March	1,225	635	590	.....	8.58	8.29	8.94	.....	51.84	48.16	3.68
April	1,191	639	549	3	8.35	8.35	8.32	17.65	53.79	46.21	7.58
May	1,101	575	526	.....	7.72	7.51	7.97	.....	52.23	47.77	4.46
June	1,055	575	478	2	7.39	7.51	7.24	11.76	54.61	45.39	9.22
July	1,155	602	551	2	8.09	7.86	8.35	11.76	52.21	47.79	4.42
August	1,507	826	680	1	10.56	10.79	10.31	5.88	54.85	45.15	9.70
September	1,492	788	704	.....	10.45	10.29	10.67	.....	52.82	47.18	5.64
October	1,235	684	550	1	8.65	8.93	8.34	5.88	55.43	44.57	10.86
November	1,083	597	483	3	7.59	7.80	7.32	17.65	55.28	44.72	10.56
December	1,115	628	484	3	7.81	8.20	7.34	17.65	56.47	43.53	12.94
Unknown	69	36	32	1	.48	.47	.48	5.88	52.94	47.06	5.88
Average	1,183.6	635.1	547.2	1.3	8.33	8.33	8.33	8.33	53.72	46.28	7.44

* Unknown month excluded.

DIAGRAM No. 3.

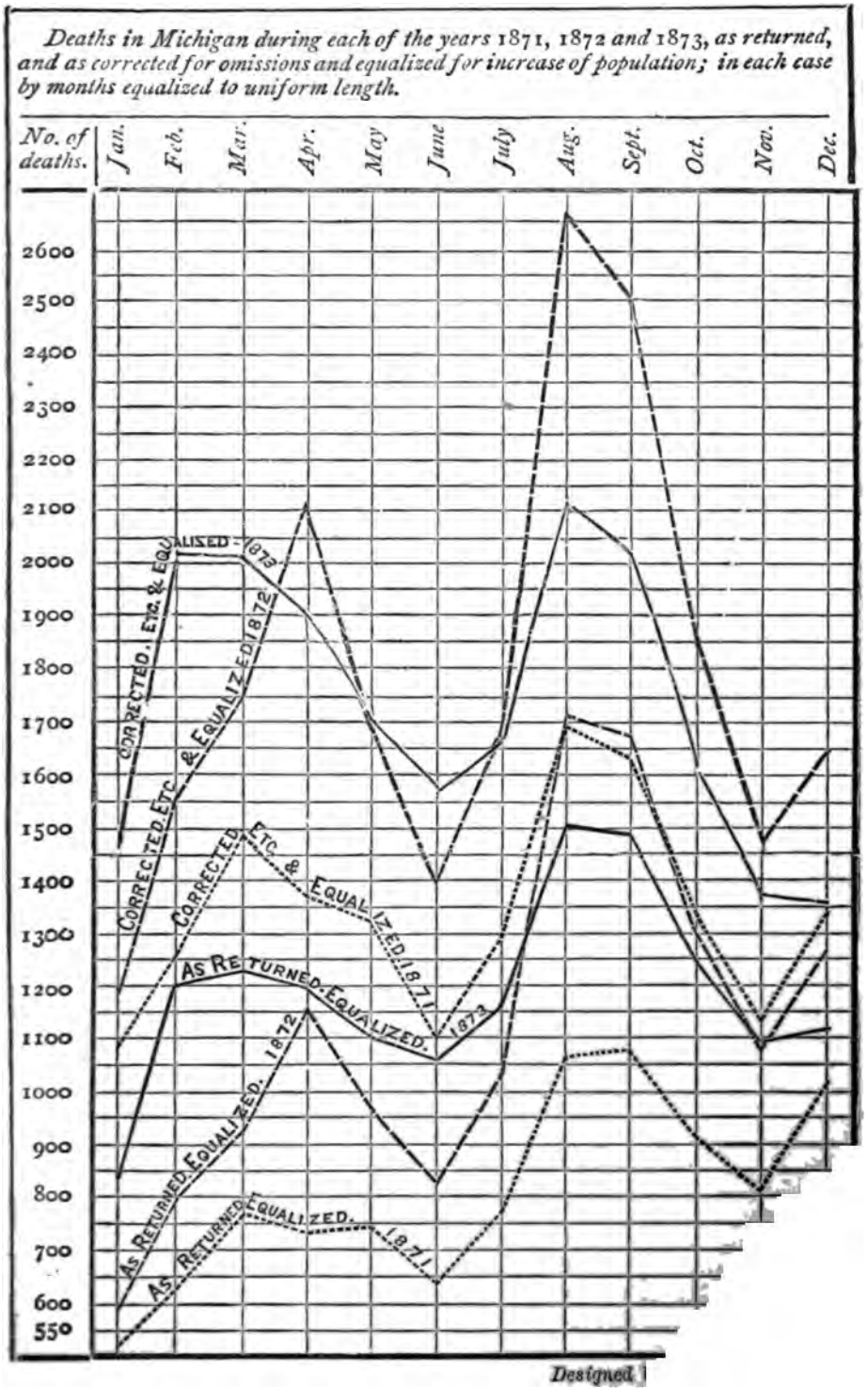

Deaths in Michigan during each of the years 1871, 1872 and 1873, as returned, and as corrected for omissions and equalized for increase of population; in each case by months equalized to uniform length.
No. of deaths.
Jan.
Feb.
Mar.
Apr.
May
June
July
Aug.
Sept.
Oct.
Nov.
Dec.
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
550
CORRECTED, ETC. & EQUALISED 1873
CORRECTED, ETC. & EQUALIZED 1872
CORRECTED, ETC. & EQUALIZED 1871
AS RETURNED, EQUALIZED. 1873
AS RETURNED, EQUALIZED. 1872
AS RETURNED, EQUALIZED. 1871
Designed

EXHIBIT C.—*Deaths in Michigan during the year 1873 as Returned; as Corrected for Omissions in Enumerating; Equalized for Increase of Population during the Year covered by the Returns; and the deaths, as thus Corrected and Equalized for the several months, Equalized for months of a uniform length of 30.44 days; also, indicating some of the steps by which these results have been reached.*

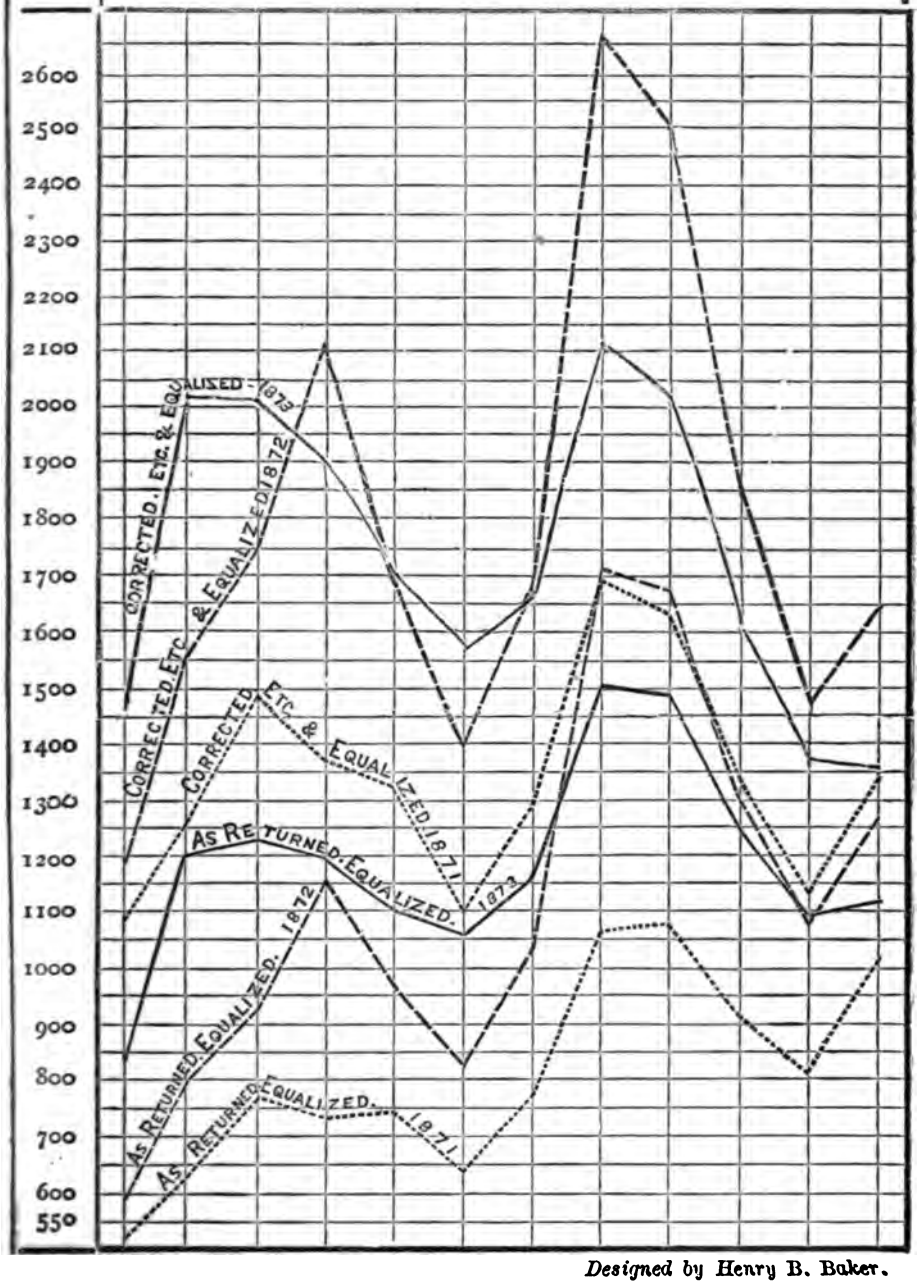
	Total.	Months, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration officers	[a]14,189	859	1,104	1,248	1,174	1,121	1,040	1,176	1,535	1,471	1,258	1,067	1,136
Per cent. of deaths to be added for correction for time elapsing before enumeration	.....	66.27	62.13	57.99	53.85	49.71	45.57	41.43	37.29	33.15	29.01	24.87	20.73
Number of deaths to be added for above correction	6,054	569	686	724	632	557	474	487	572	488	365	265	235
Deaths, if enumerated in months of occurrence	20,243	1,428	1,790	1,972	1,806	1,678	1,514	1,663	2,107	1,959	1,623	1,332	1,371
Per cent. of deaths to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year	470	60	69	69	57	47	37	35	37	28	17	9	5
Deaths as corrected, equalized to population at close of year	20,713	1,488	1,859	2,041	1,863	1,725	1,551	1,698	2,144	1,987	1,640	1,341	1,376
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	—.56	+2.44	—.56	+.44	—.56	+.44	—.56	—.56	+.44	—.56	+.44	—.56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length	+41	—27	+162	—37	+27	—31	+23	—31	—39	+29	—30	+20	—25
Deaths, corrected and equalized, equalized to months of uniform length	20,754	1,461	2,021	2,004	1,890	1,694	1,574	1,667	2,105	2,016	1,610	1,361	1,351

[a] Excluding 69 in unknown months.

Exhibit C shows some steps in the method of correcting the number of deaths as returned, on account of the probable omissions in the enumeration by the Supervisors, resulting from the time which passes between the time of death and the time of the enumeration. It also shows the equalization for increase of population, and to make the months of uniform length. This entire method has been explained in previous Reports,—at length in Report for 1871, and on pages 166–167 of the Report for 1872. The first column of Exhibit A, p. 112, and the last line of this Exhibit C are represented in Diagram No. 3.

DIAGRAM No. 3.

Deaths in Michigan during each of the years 1871, 1872 *and* 1873, *as returned, and as corrected for omissions and equalized for increase of population; in each case by months equalized to uniform length.*



Designed by Henry B. Baker.

EXHIBIT D.—*Average Temperature in each Month of the Years 1871, 1872, and 1873, Compared with the Average Temperature, in same Months, for the Nine Years ending with 1872, at the Agricultural College, near Lansing, Michigan. (From Reports Mich. State Board of Agriculture. Observations made by Prof. R. C. Kedzie.)*

MONTHS.	Years, Temperature, Etc.			
	1871.	1872.	1873.	Nine Years ending with 1872.
January	+ 24.75° F.	+ 21.59° F.	— 15.87° F.	20.22° F.
February	+ 25.65	— 21.34	— 19.10	24.90
March	+ 38.18	— 24.75	— 28.30	32.18
April	+ 50.13	— 47.39	— 43.17	47.52
May	+ 61.39	+ 58.48	— 56.98	57.25
June	— 68.21	+ 71.82	+ 70.60	68.94
July	— 70.60	+ 74.91	— 70.82	72.12
August	+ 71.19	+ 71.22	+ 69.49	69.15
September	— 58.10	+ 62.03	— 57.38	59.74
October	+ 53.91	— 47.44	— 44.68	48.01
November	— 31.93	— 29.80	— 28.49	35.98
December	— 21.12	— 15.74	+ 20.54	23.77
Average Annual	47.93	45.54	44.54	46.65

+ — The + sign indicates that the average temperature is higher, and the — sign indicates that it is lower, than the average for the same month during the nine years ending with 1872.

Exhibit D is designed to be studied in connection with diagram No. 3,—Deaths by months in the same years included in the Exhibit.

To the student of the causes of diseases, it is believed that Diagram No. 3 will be especially interesting when studied in connection with Exhibit D, because of the unusual character of the curve representing the deaths in 1873, and some exceptional meteorological conditions which were coincident with such unusual mortality by months. It will be seen by the Diagram that the number of deaths in January, February, and March, 1873, was unusually high; and by the Exhibit it appears that the average temperature during those months and the preceding month of December was unusually cold. Again, in the diagram, for December, 1873, the curve is not upward as usual, and by the Exhibit the temperature appears to have been warmer than usual. By the Diagram, it will be seen that in August, September, and October, 1873, the deaths were less than in some previous years, though more than for those months in 1871. July is usually the hottest month, and August is usually the month for which the greatest number of deaths are returned. By the Exhibit, it will be seen that the temperature in July, 1873, was not as high as usual, in August it was only a trifle above the average, and in September it was cooler than usual. It is possible that the greater than usual uniformity of death-rate by months is due in part to increased completeness in the returns. This may account for some of the apparent increase in the early part of the year; but by turning to

the tables which state the causes of deaths, by months, it may be seen that an unusual number of deaths were returned as having been caused by such diseases as have been attributed to the direct and indirect effects of cold,—such, for instance, as cerebro-spinal meningitis, pneumonia, etc. Similar remarks might be made concerning the unusual number of deaths in April, following the unusually cold month of March, 1872. The unusually small number of deaths in 1871 may also be mentioned in connection with the warmer than usual Winter and Spring months, and the cooler than usual months of June and July, as shown in the diagram and the Exhibit.

So far as the evidence here given extends, it seems to suggest a general statement which may be made, provisionally, with a view to testing its correctness hereafter, as follows: Any considerable and continued change from the average temperature for a given season of the year which is also a change in a direction *from* the average annual temperature, tends to *increase* the death-rate; while any such considerable and continued change which is also a change *toward* the average annual temperature tends to *decrease* the death-rate.

Exhibit E is a new one, and shows the number of deaths as corrected for omissions, and equalized to months of uniform length, leaving out the correction for increase of population.

EXHIBIT E.—*Deaths in Michigan during the Year 1873 as Returned, as Corrected for Omissions in Enumerating, and as thus Corrected, Equalized to Months of Uniform Length of 30.44 days each.*

	Total.	Months, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers	[a] 14,189	859	1,104	1,248	1,174	1,121	1,040	1,176	1,535	1,471	1,258	1,067	1,136
Per cent. of deaths to be added for correction for time elapsing before enumeration	.....	66.27	62.13	57.99	53.85	49.71	45.57	41.43	37.29	33.15	29.01	24.87	20.73
Number of deaths to be added for above correction	6,054	569	686	724	632	557	474	487	572	488	365	265	235
Deaths, if enumerated in months of occurrence	20,243	1,428	1,790	1,972	1,806	1,678	1,514	1,663	2,107	1,959	1,623	1,332	1,371
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length	+ 39	- 26	+ 156	- 36	+ 26	- 30	+ 22	- 30	- 38	+ 29	- 29	+ 20	- 25
Deaths, corrected and equalized to months of uniform length	20,282	1,402	1,946	1,936	1,832	1,648	1,536	1,633	2,069	1,988	1,594	1,352	1,346

[a] Excluding 69 in unknown month.

TABLE IV.—*Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1873; also, the Excess of Persons of each Sex.*

AGES IN YEARS AND PERIODS.	Number of Deaths in 1873.				Per Cent. of Deaths at each Age to Total at All Ages.			Per Cent. of Each Sex to Total of Both Sexes.				Excess of the Sexes by Number.		Males to 100 Females.
	Total.	Males.	Females.	Unkno'n.	Total.	Males.	Females.	Males.	Females.	Excess. Males.	Excess. Females.	Males.	Females.	
All Ages....	14,258	7,651	6,590	17	100.00	100.00	100.00	53.73	46.27	7.46	.....	1,061	.....	116.10
Under 1.....	3,564	1,973	1,576	15	25.00	25.79	23.92	55.59	44.41	11.18	.....	397	.....	125.19
1 to 2.....	1,066	604	462	.....	7.48	7.89	7.01	56.66	43.34	13.32	.....	142	.....	130.74
2 to 3.....	559	290	269	.....	3.92	3.79	4.08	51.88	48.12	3.76	.....	21	.....	107.81
3 to 4.....	402	218	184	.....	2.82	2.85	2.79	54.23	45.77	8.46	.....	34	.....	118.48
4 to 5.....	308	164	143	1	2.16	2.14	2.17	53.42	46.58	6.84	.....	21	.....	114.69
Under 5.....	5,899	3,249	2,634	16	41.37	42.47	39.97	55.23	44.77	10.46	.....	615	.....	123.35
5 to 10.....	838	450	388	.....	5.88	5.88	5.89	53.70	46.30	7.40	.....	62	.....	115.98
10 to 15.....	530	260	270	.....	3.72	3.40	4.10	49.06	50.94	.....	1.88	.....	10	96.30
15 to 20.....	648	324	324	.....	4.54	4.23	4.92	50.00	50.00	.....	.....	.....	.....	100.00
20 to 25.....	759	364	395	.....	5.32	4.76	5.99	47.96	52.04	.....	4.08	.....	31	92.15
25 to 30.....	580	250	330	.....	4.07	3.27	5.01	43.10	56.90	.....	13.80	.....	80	75.76
30 to 35.....	463	211	252	.....	3.25	2.76	3.82	45.57	54.43	.....	8.86	.....	41	83.73
35 to 40.....	544	253	291	.....	3.82	3.31	4.41	46.51	53.49	.....	6.98	.....	38	86.94
40 to 45.....	445	238	207	.....	3.12	3.11	3.14	53.48	46.52	6.96	.....	31	.....	114.98
45 to 50.....	427	245	182	.....	2.99	3.20	2.76	57.38	42.62	14.76	.....	63	.....	134.62
50 to 55.....	399	240	159	.....	2.80	3.14	2.41	60.15	39.85	20.30	.....	81	.....	150.94
55 to 60.....	360	197	163	.....	2.52	2.57	2.47	54.72	45.28	9.44	.....	34	.....	120.86
60 to 65.....	489	291	198	.....	3.43	3.80	3.00	59.51	40.49	19.02	.....	93	.....	146.97
65 to 70.....	431	234	197	.....	3.02	3.06	2.99	54.29	45.71	8.58	.....	37	.....	118.78
70 to 75.....	466	276	190	.....	3.27	3.61	2.88	59.23	40.77	18.46	.....	86	.....	145.26
75 to 80.....	344	192	152	.....	2.41	2.51	2.31	55.81	44.19	11.62	.....	40	.....	126.32
80 to 85.....	220	130	90	.....	1.54	1.70	1.37	59.09	40.91	18.18	.....	40	.....	144.44
85 to 90.....	129	79	50	.....	.90	1.03	.76	61.24	38.76	22.48	.....	29	.....	158.00
90 to 95.....	38	21	17	.....	.27	.27	.26	55.26	44.74	10.52	.....	4	.....	123.53
95 to 100.....	13	10	3	.....	.09	.13	.05	76.92	23.08	53.84	.....	7	.....	333.33
100 and over.	4	3	1	.....	.03	.04	.02	75.00	25.00	50.00	.....	2	.....	300.00
Unk'n ages..	232	134	97	1	1.63	1.75	1.47	58.01	41.99	16.02	.....	37	.....	138.14

EXHIBIT F.—*Deaths in Michigan in 1873, by Sex, and Excess of the Sexes, by Age in Years.*

AGE IN YEARS.	Deaths in 1873.				Excess.		AGE IN YEARS.	Deaths in 1873.				Excess.	
	Total.	Males.	Females.	Unk.	Males.	Females.		Total.	Males.	Females.	Unk.	Males.	Females.
All Ages...	14,258	7,651	6,590	17	1,061	.....	36.....	105	41	64	.....	.....	23
							37.....	99	48	51	.....	.....	3
Under 1...	3,564	1,973	1,576	15	397	.....	38.....	108	58	50	.....	8	.....
1.....	1,066	604	462	.....	142	.....	39.....	106	39	67	.....	.....	28
2.....	559	290	269	.....	21	.....	40.....	110	62	48	.....	14	.....
3.....	402	218	184	.....	34	.....	41.....	73	35	38	.....	.....	3
4.....	308	164	143	1	21	.....	42.....	104	51	53	.....	.....	2
5.....	265	145	120	.....	25	.....	43.....	80	47	33	.....	14	.....
6.....	170	97	73	.....	24	.....	44.....	78	43	35	.....	8	.....
7.....	152	84	68	.....	16	.....	45.....	106	57	49	.....	8	.....
8.....	149	71	78	.....	.....	7	46.....	65	41	24	.....	17	.....
9.....	102	53	49	.....	4	.....	47.....	72	39	33	.....	6	.....
10.....	131	69	62	.....	7	.....	48.....	95	53	42	.....	11	.....
11.....	92	45	47	.....	.....	2	49.....	89	55	34	.....	21	.....
12.....	103	50	53	.....	.....	3	50.....	92	55	37	.....	18	.....
13.....	100	49	51	.....	.....	2	51.....	55	35	20	.....	15	.....
14.....	104	47	57	.....	.....	10	52.....	91	57	34	.....	23	.....
15.....	97	43	54	.....	.....	11	53.....	85	53	32	.....	21	.....
16.....	118	50	68	.....	.....	18	54.....	76	40	36	.....	4	.....
17.....	134	79	55	.....	24	.....	55.....	79	41	38	.....	3	.....
18.....	148	72	76	.....	.....	4	56.....	73	41	32	.....	9	.....
19.....	151	80	71	.....	9	.....	57.....	61	31	30	.....	1	.....
20.....	163	79	84	.....	.....	5	58.....	63	34	29	.....	5	.....
21.....	145	68	77	.....	.....	9	59.....	84	50	34	.....	16	.....
22.....	168	83	85	.....	.....	2	60.....	82	52	30	.....	22	.....
23.....	138	63	75	.....	.....	12	61.....	70	44	26	.....	18	.....
24.....	145	71	74	.....	.....	3	62.....	119	75	44	.....	31	.....
25.....	126	56	70	.....	.....	14	63.....	119	70	49	.....	21	.....
26.....	134	60	74	.....	.....	14	64.....	99	50	49	.....	1	.....
27.....	101	51	50	.....	1	.....	65.....	110	64	46	.....	18	.....
28.....	115	43	72	.....	.....	29	66.....	88	50	38	.....	12	.....
29.....	104	40	64	.....	.....	24	67.....	86	46	40	.....	6	.....
30.....	110	51	59	.....	.....	8	68.....	84	45	39	.....	6	.....
31.....	88	40	48	.....	.....	8	69.....	63	29	34	.....	.....	5
32.....	108	53	55	.....	.....	2	70.....	85	48	37	.....	11	.....
33.....	83	31	52	.....	.....	21	71.....	62	38	24	.....	14	.....
34.....	74	36	38	.....	.....	2	72.....	90	53	37	.....	16	.....
35.....	126	67	59	.....	8	.....	73.....	126	78	48	.....	30	.....

EXHIBIT F.—CONTINUED.—*Deaths in Michigan in 1873.*

AGE IN YEARS.	DEATHS IN 1873.				EXCESS.		AGE IN YEARS.	DEATHS IN 1873.				EXCESS.	
	Total.	Males.	Females.	Unk.	Males.	Females.		Total.	Males.	Females.	Unk.	Males.	Females.
74	103	59	44	.....	15	.....	88	19	11	8	.....	3	.....
75	82	43	39	.....	4	.....	89	14	10	4	.....	6	.....
76	72	39	33	.....	6	.....	90	6	5	1	.....	4	.....
77	67	38	29	.....	9	.....	91	12	6	6	.....	.....	.....
78	76	42	34	.....	8	.....	92	7	3	4	.....	.....	1
79	47	30	17	.....	13	.....	93	6	3	3	.....	.....	.....
80	47	28	19	.....	9	.....	94	7	4	3	.....	1	.....
81	30	18	12	.....	6	.....	95	4	4	.....	.....	4	.....
82	54	29	25	.....	4	.....	96	4	2	2	.....	.....	.....
83	43	29	14	.....	15	.....	97	2	2	.....	.....	2	.....
84	46	26	20	.....	6	.....	98	2	2	.....	.....	2	.....
85	30	22	8	.....	14	.....	99	1	.....	1	.....	.....	1
86	34	18	16	.....	2	.....	100	4	3	1	.....	2	.....
87	32	18	14	.....	4	.....	Unknown.	232	134	97	1	37	.....

Table IV. exhibits the number and per cent. of deaths by ages in years and periods, by sex. By this it may be seen that 25.00 per cent. of all the deaths were of children under one year of age, and 41.37 per cent. were of persons under five years of age. The per cent. of male decedents under one and under five years of age was greater than of females. The excess of the per cent. of each sex to total of both sexes was entirely of males for those under ten and over forty years of age, and between the ages of ten and forty years the excess was entirely of females, with the exception of from fifteen to twenty years of age, when the proportion of the sexes was just equal. The showing of corresponding tables for previous years is very similar, though slightly different.

In 1872 the per cent. of decedents under one year of age was 24.49, and of those under five years 41.52 per cent.; in 1871 the per cent. of decedents under one year or age was 22.90, and of those aged under five years 39.50 per cent.; and in 1870 the per cent. under one was 24.65, and under five years, 42.58 per cent. From this it may be seen that the greatest per cent. of decedents under one year of age is shown for the year 1873, and the greatest for those under five is shown for 1870.

Persons inexperienced in vital statistics, and sometimes statisticians of some experience, make the mistake of asserting that "one-half the human race die before the age of five years," because in some localities about one-half the deaths are of children under five years of age. The fallacy is in assuming that the deaths in a given year equal the births in that year (they usually fall far below), thus not finding what proportion of all children born die before the age of five years. The compiler has called attention to this error before, and so frequently made, of late, that it seems desirable to add a few words on this subject.

Exhibit F is a new one, designed to permit of a closer study than is possible in Table IV., concerning details relative to the number and proportion of deaths of persons of each sex at each of the different ages.

Among the decedents under eleven years old, there was an excess of males at each age except at the age of eight years, where the excess is of females. From the age of eleven to that of forty-three years the excess is of females at each age except in six cases; and from the age of forty-three years upward, the excess is of males, with the exception of three instances.

So far as is evidenced by Exhibit G, it is seen that to children under one and under five years of age the greatest danger is in August; the greatest danger to persons from five to fifty years of age is in March; and to persons aged fifty years and over the greatest danger is in December.

Of the decedents under one and under five years of age, only July, August, September, and October show a per cent. of total as large as the monthly average; and these four months show nearly half the entire number of deaths of persons at those ages. For the older ages the proportion of deaths seems to be more evenly distributed throughout the months of the year.

Tables V. and VI. group the deaths by months of occurrence and by ages of decedents, and permit of closer study of details than is possible in Exhibit G, which, however, gives a better general view.

EXHIBIT G.—*The Relation of the Deaths at different Periods of Age to Deaths at all Ages, by months; and, for the same periods of age, the Relation of the Deaths in each month to the Deaths in the year 1873, according to the Returns.*

DEATHS BY AGES IN PERIODS OF YEARS.		YEAR, 1873. a	MONTHS, 1873.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average Month.
All Ages		14,189	859	1,104	1,248	1,174	1,121	1,040	1,176	1,535	1,471	1,238	1,067	1,136	1,182
Under 1	Number	3,549	162	236	264	249	221	253	392	526	463	296	217	270	296
	Per Cent. of All Ages	25.01	18.86	21.38	21.15	21.21	19.71	24.33	33.33	34.27	31.48	23.53	20.34	23.77	25.04
	Per Cent. of Deaths, 1873	100.00	4.56	6.65	7.44	7.01	6.23	7.13	11.05	14.82	13.05	8.34	6.11	7.61	8.33
Under 5	Number	5,879	302	406	453	441	404	413	593	852	728	505	367	415	490
	Per Cent. of All Ages	41.43	35.16	36.78	36.30	37.56	36.04	39.71	50.42	55.51	49.49	40.14	34.40	36.53	41.46
	Per Cent. of Deaths, 1873	100.00	5.14	6.90	7.71	7.50	6.87	7.03	10.09	14.49	12.38	8.59	6.24	7.06	8.33

5 to 10	Number	834	65	81	90	77	68	62	59	57	65	57	73	72	70				
	Per Cent. of All Ages	5.88	7.57	7.34	7.03	6.56	6.07	5.96	5.02	3.71	4.42	4.53	6.75	6.34	5.84				
	Per Cent. of Deaths, 1873	100.00	7.80	0.71	11.87	9.23	8.15	7.43	7.08	6.84	7.79	6.84	8.63	8.63	8.33				
10 to 20	Number	1,172	80	93	128	103	119	104	76	93	91	106	90	89	98				
	Per Cent. of All Ages	8.26	9.31	8.43	10.26	8.77	10.61	10.00	6.46	6.06	6.19	8.43	8.43	7.84	8.29				
	Per Cent. of Deaths, 1873	100.00	6.83	7.94	10.92	8.79	10.15	8.87	6.49	7.94	7.76	9.04	7.68	7.59	8.33				
20 to 50	Number	3,204	214	284	297	291	273	247	220	272	285	283	270	249	267				
	Per Cent. of All Ages	22.59	24.91	25.72	23.80	24.79	24.35	23.75	18.47	17.72	19.37	23.29	25.30	21.92	22.59				
	Per Cent. of Deaths, 1873	100.00	6.68	8.87	9.27	9.08	8.52	7.71	7.14	8.49	8.90	9.14	8.43	7.77	8.33				
50 and over	Number	2,879	188	228	250	239	239	106	192	238	263	275	252	227	240				
	Per Cent. of All Ages	20.29	21.89	20.65	20.03	20.36	21.32	19.04	16.83	15.50	19.24	21.86	23.62	20.14	20.29				
	Per Cent. of Deaths, 1873	100.00	6.53	7.92	8.68	8.30	8.30	6.88	6.67	8.27	9.83	9.55	8.75	7.88	8.33				
Unknown Ages	Number	221	10	12	21	23	18	16	27	23	19	22	16	14	18				
	Per Cent. of All Ages	1.55	1.16	1.09	1.68	1.96	1.61	1.54	2.30	1.50	1.39	1.75	1.50	1.23	1.52				
	Per Cent. of Deaths, 1873	100.00	4.52	5.43	9.50	10.41	8.14	7.24	12.22	10.42	8.00	9.95	7.24	6.33	8.38				

a Unknown month excluded.

TABLE V.—*Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year and in each Month of the Year 1873.*

AGES IN PERIODS OF YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All Ages	Total	14,258	859	1104	1248	1174	1121	1040	1176	1535	1471	1258	1067	1136	69
	Males	7,651	446	583	647	630	586	567	613	841	777	697	588	640	36
	Females	6,590	413	520	601	541	535	471	561	693	694	560	476	493	32
	Unknown	17	....	1	....	3	....	2	2	1	....	1	3	3	1
All Under 1	Total	3,564	162	236	264	249	221	253	392	526	463	296	217	270	15
	Males	1,973	91	139	155	134	113	137	205	285	251	168	128	158	9
	Females	1,576	71	96	109	113	108	114	186	240	212	127	86	109	5
	Unknown	15	....	1	....	2	....	2	1	1	....	1	3	3	1
All Under 5	Total	5,899	302	406	453	441	404	413	593	852	728	505	367	415	20
	Males	3,249	168	224	261	240	219	226	324	454	387	287	213	234	12
	Females	2,634	134	181	192	199	185	185	267	397	341	217	151	178	7
	Unknown	16	....	1	....	2	....	2	2	1	....	1	3	3	1
5 to 10	Total	838	65	81	99	77	68	62	59	57	65	57	72	72	4
	Males	450	27	45	47	44	38	34	32	30	40	32	44	34	3
	Females	388	38	36	52	33	30	28	27	27	25	25	28	38	1
10 to 15	Total	530	38	48	52	43	54	52	34	43	36	47	43	37	3
	Males	260	20	22	25	25	28	22	19	19	16	20	19	22	3
	Females	270	18	26	27	18	26	30	15	24	20	27	24	15	....
15 to 20	Total	648	42	45	76	60	65	52	42	50	55	59	47	52	3
	Males	324	19	24	44	38	27	30	17	28	23	26	21	27	....
	Females	324	23	21	32	22	38	22	25	22	32	33	26	25	3
20 to 25	Total	759	43	78	72	64	60	58	53	73	69	77	52	59	1
	Males	364	19	33	34	28	31	24	20	40	36	45	23	31	....
	Females	395	24	45	38	36	29	34	33	33	33	32	29	28	1
25 to 30	Total	580	47	55	52	42	57	41	34	53	47	55	54	40	3
	Males	250	16	21	20	14	25	15	14	20	23	27	30	25	....
	Females	330	31	34	32	28	32	26	20	33	24	28	24	15	3
30 to 35	Total	463	38	32	37	55	38	38	37	31	36	45	39	35	2
	Males	211	21	15	12	23	15	17	18	19	18	20	17	16	....
	Females	252	17	17	25	32	23	21	19	12	18	25	22	19	2
35 to 40	Total	544	33	54	59	55	45	43	33	44	56	37	37	44	4
	Males	253	14	20	24	25	17	22	16	24	35	20	20	14	2
	Females	291	19	34	35	30	28	21	17	20	21	17	17	30	2

TABLE V.—CONTINUED.—*Deaths by Periods of Age, by Sex, by Months.*

AGES IN PERIODS OF YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
40 to 45	Total	445	30	29	39	30	32	32	42	43	41	41	47	38	1
	Males	238	11	17	16	12	15	24	20	29	21	21	29	28	....
	Females	207	19	12	23	18	17	8	22	14	20	20	18	15	1
45 to 50	Total	427	28	36	38	45	41	35	30	28	36	38	41	33	3
	Males	245	16	23	20	22	26	22	13	17	19	22	24	20	1
	Females	182	7	13	18	23	15	13	17	11	17	16	17	13	2
50 to 55	Total	399	26	37	25	40	29	32	30	24	45	35	33	42	1
	Males	240	17	20	17	28	18	19	14	11	26	27	20	22	1
	Females	159	9	17	8	12	11	13	16	13	19	8	13	20	....
55 to 60	Total	360	17	29	28	32	36	24	21	33	30	42	30	35	3
	Males	197	12	17	13	15	18	13	14	22	14	27	14	18	....
	Females	163	5	12	15	17	18	11	7	11	16	15	16	17	3
60 to 65	Total	489	30	39	41	45	35	34	34	42	40	41	46	57	5
	Males	291	20	23	21	31	21	17	17	25	20	22	31	38	5
	Females	198	10	16	20	14	14	17	17	17	20	19	15	19	....
65 to 70	Total	431	37	27	40	38	40	24	23	34	50	38	35	43	2
	Males	234	20	18	20	21	20	17	11	23	21	22	15	26	....
	Females	197	17	9	20	17	20	7	12	11	29	16	20	17	2
70 to 75	Total	466	30	39	37	34	39	31	32	39	44	46	47	46	2
	Males	276	17	21	19	18	26	21	22	24	25	27	26	28	2
	Females	190	13	18	18	16	13	10	10	15	19	19	21	18	....
75 to 80	Total	344	23	29	36	21	29	31	20	32	34	27	22	40	....
	Males	192	10	19	14	14	19	24	12	17	16	14	6	27	....
	Females	152	13	10	22	7	10	7	8	15	18	13	16	13	....
80 to 85	Total	220	14	13	23	18	19	10	16	21	20	25	22	18	1
	Males	130	7	10	14	9	8	4	7	13	13	14	18	13	....
	Females	90	7	3	9	9	11	6	9	8	7	11	4	5	1
85 to 90	Total	129	8	13	13	7	7	8	14	11	11	13	10	14	....
	Males	79	6	5	11	5	3	4	10	8	6	5	6	10	....
	Females	50	2	8	2	2	4	4	4	3	5	8	4	4	....
90 to 95	Total	38	2	2	6	2	4	3	1	1	5	7	4	1	....
	Males	21	1	1	2	1	4	....	....	....	3	6	3	....	....
	Females	17	1	1	4	1	....	3	1	1	2	1	1	1	....
95 to 100	Total	13	1	....	1									1	..
	Males	10													
	Females														

TABLE V.—CONTINUED.—*Deaths by Periods of Age, by Sex, by Months.*

AGES IN PERIODS OF YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
100 and Over	Total	4	....	..	....	1	1	1	....		....	1	....	....	....
	Males	3	....	..	....	1	1	1	....		....	....	....	....	....
	Females	1	....	..	....	....	....	..	....		....	1	....	....	....
Unknown	Total	232	10	12	21	23	18	16	27	23	19	22	16	14	11
	Males	134	4	5	13	15	7	11	12	17	12	13	7	11	7
	Females	97	6	7	8	7	11	5	15	6	7	9	9	3	4
	Unknown	1	....	..	....	1	....	..	....		....	....	....	....	....

TABLE VI.—*Exhibiting, by Sex and by Months, the Number returned as having Died in Michigan during the Year 1873 at each and every Age, the Age stated in Twelfths of a Year for those under One, and in Years for those over One Year of Age.*

AGES IN YEARS AND TWELFTHS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Under 1-12*	Total	1,299	67	106	115	105	77	101	111	120	134	115	107	133	8
	Males	740	35	60	64	55	47	55	62	66	72	67	70	82	5
	Females	545	32	45	51	48	30	45	48	53	62	47	34	48	2
	Unknown	14	....	1	....	2	....	1	1	1	....	1	3	3	1
1-12	Total	350	13	29	27	23	16	22	29	57	56	33	16	29	....
	Males	196	8	20	16	13	7	11	14	39	25	15	7	21	....
	Females	153	5	9	11	10	9	10	15	18	31	18	9	8	....
	Unknown	1	....	....	....	....	....	1	....	....	....	....	....	....	....
2-12	Total	276	13	16	17	22	21	21	36	38	32	25	16	19	....
	Males	147	9	6	12	13	10	16	11	21	19	9	8	13	....
	Females	129	4	10	5	9	11	5	25	17	13	16	8	6	....
3-12	Total	258	10	11	13	21	16	24	36	31	36	25	14	20	1
	Males	129	5	6	6	11	7	12	14	15	21	16	10	6	....
	Females	129	5	5	7	10	9	12	22	16	15	9	4	14	1
4-12	Total	209	14	16	15	9	10	6	23	47	39	11	11	7	1
	Males	116	8	11	7	4	5	5	13	24	21	7	4	3	1
	Females	93	6	5	8	5	5	1	10	23	15	4	7	4	....
5-12	Total	208	17	15	13	6	17	17	17	37	35	14	6	13	1
	Males	114	9	11	8	4	7	8	9	20	22	7	3	5	1
	Females	94	8	4	5	2	10	9	8	17	13	7	3	8	....
6-12	Total	210	6	11	18	10	14	14	32	45	31	11	13	3	2
	Males	112	4	8	11	6	3	7	18	21	15	7	8	2	2
	Females	98	2	3	7	4	11	7	14	24	16	4	5	1	....
7-12	Total	199	3	9	13	14	15	12	34	43	17	19	10	10	....
	Males	114	2	5	5	6	9	7	18	24	13	15	5	5	....
	Females	85	1	4	8	8	6	5	16	19	4	4	5	5	....
8-12	Total	134	3	5	5	10	9	9	20	24	20	8	11	9	1
	Males	78	3	2	4	7	7	6	13	11	9	4	5	7	....
	Females	56	....	3	1	3	2	3	7	13	11	4	6	2	1
9-12	Total	132	4	6	7	5	12	12	13					7	1
	Males	77	2	3	5										
	Females	55	2												

*Still-births included.

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS AND TWELFTHS.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
10-12	Total	142	5	5	12	10	7	9	21	25	20	11	3	14	....
	Males	73	2	3	10	4	4	2	12	16	6	5	2	7	....
	Females	69	3	2	2	6	3	7	9	9	14	6	1	7	....
11-12	Total	147	7	7	9	14	7	6	20	31	26	8	6	6	....
	Males	77	4	4	7	8	2	1	14	12	14	6	3	2	....
	Females	70	3	3	2	6	5	5	6	19	12	2	3	4	....
1	Total	1,066	63	64	58	76	76	78	99	183	141	106	63	56	3
	Males	604	32	33	33	45	50	49	63	92	77	65	36	28	1
	Females	462	31	31	25	31	26	29	36	91	64	41	27	28	2
2	Total	559	27	31	53	43	52	35	52	71	62	52	43	38	....
	Males	290	12	20	33	23	29	20	26	36	30	22	20	19	....
	Females	269	15	11	20	20	23	15	26	35	32	30	23	19	....
3	Total	402	28	38	54	40	27	32	17	46	40	30	24	24	2
	Males	218	16	14	30	24	9	15	10	29	17	20	16	16	2
	Females	184	12	24	24	16	18	17	7	17	23	10	8	8	....
4	Total	308	22	37	24	33	28	15	33	26	22	21	20	27	....
	Males	164	17	18	10	14	18	5	20	12	12	12	13	13	....
	Females	143	5	19	14	19	10	10	12	14	10	9	7	14	....
	Unknown	1	....	....	....	....	....	....	1	....	....	....	....	....	....
5	Total	265	13	30	38	19	25	14	24	20	15	13	28	26	....
	Males	145	5	18	16	9	16	9	12	10	11	9	16	14	....
	Females	120	8	12	22	10	9	5	12	10	4	4	12	12	....
6	Total	170	13	14	13	20	13	13	13	9	18	14	16	13	1
	Males	97	6	7	9	11	7	7	9	7	13	5	11	4	1
	Females	73	7	7	4	9	6	6	4	2	5	9	5	9	....
7	Total	152	15	14	26	19	10	16	9	11	8	10	2	10	2
	Males	84	8	8	15	10	7	10	4	5	2	6	1	7	1
	Females	68	7	6	11	9	3	6	5	6	6	4	1	3	1
8	Total	149	15	12	9	8	13	13	8	11	15	12	17	15	1
	Males	71	3	5	2	7	6	5	4	6	9	6	10	7	1
	Females	78	12	7	7	1	7	8	4	5	6	6	7	8	....
9	Total	102	9	11	13	11	7	6	5	6	9	8	9	8	....
	Males	53	5	7	5	7	2	3	3	2	5	6	6	2	....
	Females	49	4	4	8	4	5	3	2	4	4	2	3	6	....

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
10	Total	131	10	18	18	11	12	10	8	10	6	9	9	10	....
	Males	69	6	11	10	5	7	2	5	2	3	6	4	5	....
	Females	62	4	7	8	3	5	8	3	8	3	3	5	5	....
11	Total	92	8	10	5	5	5	11	5	11	7	9	7	9	....
	Males	45	4	5	3	2	2	6	3	6	1	4	5	4	....
	Females	47	4	5	2	3	3	5	2	5	6	5	2	5	....
12	Total	103	5	7	9	9	13	14	5	7	6	6	12	8	2
	Males	50	2	2	7	4	5	6	3	4	2	2	5	6	2
	Females	53	3	5	2	5	8	8	2	3	4	4	7	2	....
13	Total	100	4	7	12	9	13	5	8	12	7	14	5	3	1
	Males	49	3	1	4	6	6	5	5	5	5	4	2	2	1
	Females	51	1	6	8	3	7	....	3	7	2	10	3	1	....
14	Total	104	11	6	8	9	11	12	8	3	10	9	10	7	....
	Males	47	5	3	1	5	8	3	3	2	5	4	3	5	....
	Females	57	6	3	7	4	3	9	5	1	5	5	7	2	....
15	Total	97	10	5	7	8	10	8	5	5	10	13	6	9	1
	Males	43	3	1	4	7	4	5	5	3	4	2	3	2	....
	Females	54	7	4	3	1	6	3	....	2	6	11	3	7	1
16	Total	118	7	7	11	16	21	7	6	9	10	8	7	7	2
	Males	50	2	3	6	8	10	3	2	1	5	6	3	1	....
	Females	68	5	4	5	8	11	4	4	8	5	2	4	6	2
17	Total	134	5	12	14	12	13	7	7	15	9	18	9	13	....
	Males	79	2	9	11	9	3	3	2	11	4	10	5	10	....
	Females	55	3	3	3	3	10	4	5	4	5	8	4	3	....
18	Total	148	12	13	23	12	5	13	13	10	11	11	11	14	....
	Males	72	7	6	11	6	2	9	3	6	5	2	5	10	....
	Females	76	5	7	12	6	3	4	10	4	6	9	6	4	....
19	Total	151	8	8	21	12	16	17	11	11	15	9	14	9	....
	Males	80	5	5	12	8	8	10	5	7	5	6	5	4	....
	Females	71	3	3	9	4	8	7	6	4	10	3	9	5	....
20	Total	163	3	17	18	12	12	14	12	18	16	16	9	15	1
	Males	79	3	9	8	9	5	6	4	9	7	9	3	7	....
	Females	84	....	8	10	3	7	8	8						
21	Total	145	7	12	3	11									
	Males	68	1	7	4										
	Females	77	6	5											

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
22	Total	168	12	23	17	12	15	8	12	11	17	11	18	12	....
	Males	83	5	6	8	5	9	5	6	6	9	6	10	8	....
	Females	85	7	17	9	7	6	3	6	5	8	5	8	4	....
23	Total	138	7	14	10	15	14	16	6	15	10	18	3	10	....
	Males	63	3	7	3	4	7	6	1	9	8	11	1	3	....
	Females	75	4	7	7	11	7	10	5	6	2	7	2	7	....
24	Total	145	14	11	19	14	10	12	6	17	10	14	13	5	....
	Males	71	7	4	11	5	5	5	2	9	5	8	6	4	....
	Females	74	7	7	8	9	5	7	4	8	5	6	7	1	....
25	Total	126	6	11	10	16	6	12	6	13	10	15	10	11	....
	Males	56	2	3	4	4	2	5	4	5	5	8	5	9	....
	Females	70	4	8	6	12	4	7	2	8	5	7	5	2	....
26	Total	134	12	9	12	8	8	7	5	15	14	15	19	8	2
	Males	60	2	5	4	....	3	3	1	5	9	8	14	6	....
	Females	74	10	4	8	8	5	4	4	10	5	7	5	2	2
27	Total	101	8	10	11	4	13	3	6	9	11	11	5	10	....
	Males	51	4	5	4	5	8	1	4	5	5	4	4	4	....
	Females	50	4	5	7	1	5	2	2	4	6	7	1	6	....
28	Total	115	8	13	12	7	13	9	9	11	5	8	15	5	....
	Males	43	2	2	6	3	5	4	3	4	1	5	5	3	....
	Females	72	6	11	6	4	8	5	6	7	4	3	10	2	....
29	Total	104	13	12	7	7	17	10	8	5	7	6	5	6	1
	Males	40	6	6	2	4	7	2	2	1	3	2	2	3	....
	Females	64	7	6	5	3	10	8	6	4	4	4	3	3	1
30	Total	110	6	8	9	9	9	9	11	10	5	11	11	11	1
	Males	51	2	6	2	2	4	6	5	8	2	3	6	5	....
	Females	59	4	2	7	7	5	3	6	2	3	8	5	6	1
31	Total	88	5	9	11	15	8	4	4	4	9	8	4	7	....
	Males	40	2	4	4	6	4	1	3	3	5	3	1	4	....
	Females	48	3	5	7	9	4	3	1	1	4	5	3	3	....
32	Total	108	10	8	5	17	7	10	12	8	13	6	7	5	....
	Males	53	7	3	2	8	3	3	6	3	7	6	3	2	....
	Females	55	3	5	3	9	4	7	6	5	6	....	4	3	....
33	Total	83	12	3	4	9	9	9	6	4	2	9	9	6	1
	Males	31	6	....	....	3	3	4	3	1	....	4	6	1	....
	Females	52	6	3	4	6	6	5	3	3	2	5	3	5	1

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	74	5	4	8	5	5	6	4	5	7	11	8	6	....
34	Males	36	4	2	4	4	1	3	1	4	4	4	1	4	....
	Females	38	1	2	4	1	4	3	3	1	3	7	7	2	....
	Total	126	6	11	16	15	8	13	6	12	16	6	8	6	3
35	Males	67	4	3	10	8	4	8	3	6	11	2	5	2	1
	Females	59	2	8	6	7	4	5	3	6	5	4	3	4	2
	Total	105	8	8	13	8	12	7	8	7	7	6	8	13	....
36	Males	41	2	3	3	2	3	4	3	4	4	3	5	5	....
	Females	64	6	5	10	6	9	3	5	3	3	3	3	8	....
	Total	99	7	8	8	9	8	8	9	12	11	6	6	7	....
37	Males	48	3	4	3	3	4	4	4	7	5	4	4	3	....
	Females	51	4	4	5	6	4	4	5	5	6	2	2	4	....
	Total	108	7	9	13	10	6	8	6	9	10	11	9	10	....
38	Males	58	4	5	6	5	2	4	5	7	8	6	4	2	....
	Females	50	3	4	7	5	4	4	1	2	2	5	5	8	....
	Total	106	5	18	9	13	11	7	4	4	12	8	6	8	1
39	Males	39	1	5	2	7	4	2	1	....	7	5	2	2	1
	Females	67	4	13	7	6	7	5	3	4	5	3	4	6	....
	Total	110	9	4	10	10	11	4	15	13	9	8	10	7	....
0	Males	62	4	3	5	4	4	3	8	13	6	4	5	3	....
	Females	48	5	1	5	6	7	1	7	....	3	4	5	4	....
	Total	73	5	2	5	5	4	6	6	8	9	6	10	7	....
....	Males	35	3	1	2	3	2	3	3	2	3	4	6	3	....
	Females	38	2	1	3	2	2	3	3	6	6	2	4	4	....
	Total	104	4	11	13	6	6	7	8	6	5	15	13	9	1
....	Males	51	1	7	5	2	5	5	2	3	3	7	6	5	....
	Females	53	3	4	8	4	1	2	6	3	2	8	7	4	1
	Total	80	10	6	3	4	3	6	7	8	10	8	7	8	....
....	Males	47	2	4	1	1	....	6	4	5	6	5	6	7	....
	Females	33	8	2	2	3	3	....	3	3	4	3	1	1	....
	Total	78	2	6	8	5	8	9	6	8	8	4	7	7	....
....	Males	43	1	2	3	2	4	7	3	6	3	1	6	5	....
	Females	35	1	4	5	3	4	2	3	2	5	3	1	2	....
	Total	106	5	9	10	9	12	13	8	9	3	13	8	4	3
15	Males	57	4	5	6	5	8	8	2	3	3	6	3	3	1
	Females	49	1	4	4	4	4	5	6	6	....	7	5	1	2

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
46	Total	65	3	4	5	10	5	4	6	6	7	3	5	7	....
	Males	41	2	3	2	7	3	4	2	3	2	2	5	6	....
	Females	24	1	1	3	3	2	....	4	3	5	1	....	1	....
47	Total	72	5	9	5	9	1	2	2	4	12	8	10	5	....
	Males	39	4	7	2	3	1	....	1	4	6	4	5	2	....
	Females	33	1	2	3	6	....	2	1	....	6	4	5	3	....
48	Total	95	4	8	7	8	14	10	7	4	5	9	11	8	....
	Males	53	2	4	3	3	7	6	4	2	3	7	6	6	....
	Females	42	2	4	4	5	7	4	3	2	2	2	5	2	....
49	Total	89	6	6	11	9	9	6	7	5	9	5	7	9	....
	Males	55	4	4	7	4	7	4	4	5	5	3	5	3	....
	Females	34	2	2	4	5	2	2	3	....	4	2	2	6	....
50	Total	92	5	11	7	9	6	7	4	4	10	8	9	11	1
	Males	55	3	8	4	5	4	3	2	1	5	7	4	8	1
	Females	37	2	3	3	4	2	4	2	3	5	1	5	3	....
51	Total	55	2	6	1	7	9	3	6	3	3	6	5	4	....
	Males	35	2	3	....	6	6	3	3	2	2	4	2	2	....
	Females	20	....	3	1	1	3	....	3	1	1	2	3	2	....
52	Total	91	6	4	3	11	6	8	4	8	13	9	7	12	....
	Males	57	5	2	2	9	3	4	2	3	7	6	7	7	....
	Females	34	1	2	1	2	3	4	2	5	6	3	....	5	....
53	Total	85	8	5	9	9	2	10	10	3	10	6	6	7	....
	Males	53	3	3	6	6	....	7	5	2	7	6	5	3	....
	Females	32	5	2	3	3	2	3	5	1	3	....	1	4	....
54	Total	76	5	11	5	4	6	4	6	6	9	6	6	8	....
	Males	40	4	4	5	2	5	2	2	3	5	4	2	2	....
	Females	36	1	7	....	2	1	2	4	3	4	2	4	6	....
55	Total	79	4	3	11	4	7	5	2	6	10	7	9	10	1
	Males	41	1	3	7	1	4	3	1	3	4	6	4	4	....
	Females	38	3	....	4	3	3	2	1	3	6	1	5	6	1
56	Total	73	1	9	3	9	7	5	5	8	7	7	5	6	1
	Males	41	1	6	2	5	2	3	4	4	3	4	3	4	....
	Females	32	....	3	1	4	5	2	1	4	4	3	2	2	1
57	Total	61	2	4	5	6	6	3	4	9	3	8	3	8	....
	Males	31	2	2	....	....	4	1	2	7	2	6	1	4	....
	Females	30	....	2	5	6	2	2	2	2	1	2	2	4	....

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

ES IN YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	63	5	2	4	5	9	5	3	5	2	9	6	8	....
	Males	34	5	....	3	3	4	3	1	4	1	3	3	4	....
	Females	29	....	2	1	2	5	2	2	1	1	6	3	4	....
	Total	84	5	11	5	8	7	6	7	5	8	11	7	3	1
	Males	50	3	6	1	6	4	3	6	4	4	8	3	2	....
	Females	34	2	5	4	2	3	3	1	1	4	3	4	1	1
	Total	82	5	7	4	5	2	8	8	3	11	7	8	11	3
	Males	52	5	5	2	3	1	5	4	1	6	5	4	8	3
	Females	30	....	2	2	2	1	3	4	2	5	2	4	3	....
	Total	70	6	6	3	12	6	6	3	6	8	6	3	5	....
	Males	44	3	3	1	11	5	1	2	3	6	3	2	4	....
	Females	26	3	3	2	1	1	5	1	3	2	3	1	1	....
	Total	119	5	10	13	10	7	7	9	18	5	12	11	12	....
	Males	75	3	8	10	5	5	3	5	13	3	5	7	8	....
	Females	44	2	2	3	5	2	4	4	5	2	7	4	4	....
	Total	119	12	8	9	11	7	8	8	9	8	6	13	18	2
	Males	70	8	5	3	9	3	4	2	6	1	5	11	11	2
	Females	49	4	3	6	2	4	4	6	3	7	1	2	7	....
	Total	99	2	8	12	7	13	5	6	6	8	10	11	11	....
	Males	50	1	2	5	3	7	4	4	2	4	4	7	7	....
	Females	49	1	6	7	4	6	1	2	4	4	6	4	4	....
	Total	110	8	10	11	8	12	4	5	6	9	9	8	19	1
	Males	64	4	8	7	4	9	3	1	2	4	4	6	12	....
	Females	46	4	2	4	4	3	1	4	4	5	5	2	7	1
	Total	88	8	10	14	8	10	4	4	8	7	3	9	3	....
	Males	50	4	6	5	7	5	4	3	7	1	2	4	2	....
	Females	38	4	4	9	1	5	....	1	1	6	1	5	1	....
	Total	86	6	3	8	5	8	6	5	10	8	12	4	10	1
	Males	46	6	1	5	2	2	3	2	6	4	9	....	6	....
	Females	40	....	2	3	3	6	3	3	4	4	3	4	4	1
	Total	84	7	2	4	15	7	7	3	5	10	11	6	7	
	Males	45	2	1	2	7	3	5	3	4	7	4	2		
	Females	39	5	1	2	8	4	2	....	1	3	7			
	Total	63	8	2	3	2	3	3	6	5	16				
	Males	29	4	2	1	1	1	2	2	4					
	Females	34	4	....	2	1	2	1	4						

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
70	Total	85	6	9	5	5	5	5	8	11	7	9	8	7	....
	Males	48	4	3	3	4	5	5	5	7	3	2	5	2	....
	Females	37	2	6	2	1	....	....	3	4	4	7	3	5	....
71	Total	62	1	4	7	5	6	6	5	4	9	4	5	6	....
	Males	38	1	3	3	3	5	3	3	1	6	3	2	5	....
	Females	24	....	1	4	2	1	3	2	3	3	1	3	1	....
72	Total	90	10	9	9	5	5	8	2	3	7	11	9	11	1
	Males	53	3	6	7	2	3	5	2	1	2	9	5	7	1
	Females	37	7	3	2	3	2	3	....	2	5	2	4	4	....
73	Total	126	7	7	7	9	12	8	10	11	15	12	18	10	....
	Males	78	5	4	3	5	7	5	8	9	9	6	10	7	....
	Females	48	2	3	4	4	5	3	2	2	6	6	8	3	....
74	Total	103	6	10	9	10	11	4	7	10	6	10	7	12	1
	Males	59	4	5	3	4	6	3	4	6	5	7	4	7	1
	Females	44	2	5	6	6	5	1	3	4	1	3	3	5	....
75	Total	82	3	7	11	3	7	9	3	4	7	6	8	14	....
	Males	43	1	3	4	3	5	6	3	3	3	3	1	8	....
	Females	39	2	4	7	....	2	3	....	1	4	3	7	6	....
76	Total	72	2	4	4	7	10	6	4	10	6	7	5	7	....
	Males	39	1	4	1	5	6	4	3	4	2	2	2	5	....
	Females	33	1	....	3	2	4	2	1	6	4	5	3	2	....
77	Total	67	7	6	7	5	7	5	6	3	6	6	3	6	....
	Males	38	3	4	4	3	5	4	1	1	3	4	1	5	....
	Females	29	4	2	3	2	2	1	5	2	3	2	2	1	....
78	Total	76	8	6	8	5	3	7	4	11	8	4	5	7	....
	Males	42	2	2	3	3	2	7	4	6	4	3	2	4	....
	Females	34	6	4	5	2	1	....	....	5	4	1	3	3	....
79	Total	47	3	6	6	1	2	4	3	4	7	4	1	6	....
	Males	30	3	6	2	....	1	3	1	3	4	2	....	5	....
	Females	17	....	....	4	1	1	1	2	1	3	2	1	1	....
80	Total	47	1	2	7	3	3	2	6	5	3	8	5	2	....
	Males	28	1	2	4	3	1	1	2	3	3	3	4	1	....
	Females	19	....	....	3	....	2	1	4	2	....	5	1	1	....
81	Total	30	4	2	....	2	1	2	3	1	3	5	4	3	....
	Males	18	2	2	....	1	....	....	1	1	2	4	3	2	....
	Females	12	2	....	....	1	1	2	2	....	1	1	1	1	....

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
82	Total	54	3	6	4	5	5	4	4	7	3	4	2	7	....
	Males	29	3	4	3	2	2	2	1	2	2	1	2	5	....
	Females	25	....	2	1	3	3	2	3	5	1	3	....	2	....
83	Total	43	1	....	3	5	8	1	1	3	5	6	7	3	....
	Males	29	....	....	2	2	4	....	1	2	4	5	6	3	....
	Females	14	1	....	1	3	4	1	....	1	1	1	1	....	....
84	Total	46	5	3	9	3	2	1	2	5	6	2	4	3	1
	Males	26	1	2	5	1	1	1	2	5	2	1	3	2	....
	Females	20	4	1	4	2	1	....	....	....	4	1	1	1	1
85	Total	30	2	4	5	3	1	....	4	1	4	3	1	2	....
	Males	22	2	3	5	2	1	....	3	1	2	1	....	2	....
	Females	8	....	1	....	1	....	....	1	....	2	2	1	....	....
86	Total	34	2	5	3	2	....	3	3	4	2	3	3	4	....
	Males	18	2	....	2	2	....	2	2	2	1	2	2	1	....
	Females	16	....	5	1	....	....	1	1	2	1	1	1	3	....
87	Total	32	3	2	2	1	3	1	3	3	4	4	3	3	....
	Males	18	1	1	2	1	2	....	1	2	3	1	2	2	....
	Females	14	2	1	....	....	1	1	2	1	1	3	1	1	....
88	Total	19	....	1	1	1	1	3	2	3	1	1	1	4	....
	Males	11	....	....	....	....	....	2	2	3	....	....	....	4	....
	Females	8	....	1	1	1	1	1	....	....	1	1	1	....	....
89	Total	14	1	1	2	....	2	1	2	....	....	2	2	1	....
	Males	10	1	1	2	....	....	....	2	....	....	1	2	1	....
	Females	4	....	....	....	....	2	1	....	....	....	1	....	....	....
90	Total	6	1	1	....	1	1	....	....	....	1	1	....	....	....
	Males	5	1	....	....	1	1	....	....	....	1	1	....	....	....
	Females	1	....	1	....	....	....	....	....	....	....	....	....	....	....
91	Total	12	....	....	1	1	2	2	1	1	2	1	1	....	....
	Males	6	....	....	....	....	2	....	....	....	2	1	1	....	....
	Females	6	....	....	1	1	....	2	1	1	....	....	....	....	....
92	Total	7	....	....	2	....	....	1	....	....	1	2	....	1	....
	Males	3	....	....	1	....	....	....	....	....	....	2			
	Females	4	....	....	1	....	....	1							
93	Total	6	....	....	1										
	Males	3	....	....											
	Females	3	....												

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1873.	MONTHS, 1873.												
			January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.
94	Total	7	1	1		....	1	....	....	....		..	2	....	....
	Males	4	....	1		....		....	....	....		..	1	....	....
	Females	3	1	..		....		..		....		..	1	....	....
95	Total	4	1	..		1		..		....	..	..	1	....	....
	Males	4	1	..		1		..		....	..	..	1	....	....
96	Total	4	..	..		....		..		1	2	..	....	....	....
	Males	2	..	..		....		..		1	1	..	....	....	....
	Females	2	..	..		....		..		....	1	..	....	....	....
97	Total	2	..	..		....	..	..		....	1	..	1	....	....
	Males	2	..	..		....	..	..		....	1	..	1	....	....
98	Total	2	..	..		....	..	..		....	1	..	....	1	....
	Males	2	..	..		....	..	..		....	1	..	....	1	....
99	Females	1	..	..		....	..	..		....	..	..	1	....	....
100	Total	4	..	..		1	1	1		....	..	1	....	....	....
	Males	3	..	..		1	1	1		....	..	..	....	....	....
	Females	1	..	..		....	..	..		....	..	1	....	....	....
Unknown	Total	232	10	12	21	23	18	16	27	23	19	22	16	14	11
	Males	134	4	5	13	15	7	11	12	17	12	13	7	11	7
	Females	97	6	7	8	7	11	5	15	6	7	9	9	3	4
	Unknown	1	..	..		1	..	..		....	..	..	....	....	....

INFANT MORTALITY.

The subject of infant mortality is important for many reasons, one being that it is believed to furnish a guide to a knowledge of the healthfulness of localities, and at different times, because unhealthful conditions more quickly prove fatal to children than to adults. Excessive mortality of children, therefore, is an indication for sanitary work, not only for the prevention of infant mortality, but of the evil effects of unsanitary conditions on the infants and adults who survive but are so injured as to lead imperfect lives thereafter.

The first lines in Tables IV., V., and VI. supply information on this subject for the year 1873, and comparisons can be made with similar statements in former Reports for previous years, and with such statements for other States, cities, and countries.

Exhibit 2 shows the numerical relation of such still-births as are returned with the deaths to the total deaths during the year 1873, and also permits of comparing, in this respect, the year 1873 with former years.

Table VIII. supplies, in a small space, many details relating to the deaths of children under one year of age in Michigan during the year 1873. Similar tables have been published in preceding Reports, and the nature of its construction explained on pages 201–202 of the Report for 1871. It is believed that the table has considerable value, though demanding somewhat careful study to reveal its usefulness.

EXHIBIT 2.—*The Relation of Still-births to all Persons Returned as having Died in Michigan during the several Years 1868 to 1873, inclusive, According to the Returns of Deaths.*

	Total Deaths and Still-births.—Years.					
	1868.	1869.	1870.	1871.	1872.	1873.
Total number of deaths	6,326	9,145	10,766	9,728	13,371	14,258
Number of still-births[a]	46	129	226	268	204	274
Per cent. of still-births to total deaths	.73	1.41	2.10	2.75	1.53	1.92

[a] As per returns of deaths. This line should be compared with a similar line in Exhibit 6, relating to births, on page 57 of this Report. See also remarks on the subject on page 56 of this Report.

TABLE VIII.—*Exhibiting, by Sex, the Number of Children under One Year of Age Returned as having Died in Michigan during the Year 1873; Distinguishing the Months in which they Died, their Age in Months at Death, the Months in which they were Born, and whether Born in the Year of Death or in the Previous Year.*[a]

Months in which Births and Deaths Occurred.	Number Born in Each Month of Year of Death.			Number of Children that Died at Each Age in Months.												Number Born in each Month of Year Previous to Year of Death.			Deaths by Months.									
	Year.	Totals.	Sex.	No. of each Sex.	-1.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	No. of each Sex.	Totals.	Year.	Of those Born in Year of Death.			Of those Born in Previous Year.			All Aged under One Year.		
																				Sex.	Totals.		Sex.	Totals.		Sex.	Totals.	
January	1873.	281	Males	156	35	8	9	5	8	9	4	2	3	2	2	4	------	------	1872.	35	67	1873.	56	95	1872.	91	162	
			Females	125	32	5	4	5	6	8	2	1	--	2	3	3	------	------		32			39			71		
February		281	Males	158	60	20	6	6	11	11	8	5	2	3	3	4	4	7		80	134		59	101		139	235	
			Females	123	45	9	10	5	5	4	3	4	3	3	2	3	3			54			42			96		
March		311	Males	172	64	16	12	6	7	8	11	5	4	5	10	7	6	12		92	159		63	105		155	264	
			Females	139	51	11	5	7	8	5	7	8	1	2	2	2	6			67			42			109		
April		288	Males	157	55	13	13	11	4	4	6	6	7	3	4	8	12	18		92	169		42	78		134	247	
			Females	131	48	10	9	10	5	2	4	8	3	2	6	6	6			77			36			113		
May		241	Males	128	47	7	10	7	5	7	3	9	7	5	4	2	24	35		76	140		37	81		113	221	
			Females	113	30	9	11	9	5	10	11	6	2	7	3	5	11			64			44			108		
June		223	Males	123	55	11	16	12	5	8	7	7	6	7	2	1	15	32		107	189		30	62		137	251	
			Females	100	45	10	5	12	1	9	7	5	3	5	7	5	17			82			32			114		
July		248	Males	145	62	14	11	14	13	9	18	18	13	7	12	14	21	38		141	283		64	108		205	391	
			Females	103	48	15	25	22	10	8	14	16	7	6	9	6	17			142			44			186		
August		221	Males	113	66	39	21	15	24	20	21	24	11	16	16	12	50	92		230	417		55	108		285	525	
			Females	108	53	18	17	16	23	17	24	19	13	12	9	19	42			187			53			240		
September		203	Males	101	72	25	19	21	24	22	15	13	9	11	6	14	74	134		220	400		31	63		251	463	
			Females	102	62	31	13	15	15	13	16	4	11	6	14	12	60			180			32			212		
October		149	Males	87	67	15	9	16	7	7	7	15	4	10	5	6	82	137		157	276		11	19		168	295	
			Females	62	47	18	16	9	4	7	4	4	4	6	6	2	55			119			8			127		
vember		133	Males	91	70	7	8	10	4	3	8	5	5	3	2	3	77	147		125	208		3	6		128	214	
			Females	42	34	9	8	4	7	3	5	5	6	1	1	3	70			83			3			86		
cember		130	Males	82	82	21	13	6	3	5	2	5	7	5	7	2	86	174		158	267		------	------		158	267	
			Females	48	48	8	6	14	4	8	1	5	2	2	7	4	88			109			------			109		

DEATHS BY AGES.																															
Of those Born in Year of Death.	1873	2,709																													
	1872		Males ... Females.	1,513 1,196	735 643	188 148	132 115	112 111	85 60	74 65	71 64	62 37	25 23	18 9	9 8	9 4	....	....	1,513 1,196													
Of those Born in Previous Year.			Total....	2,709	1278	336	247	223	154	139	135	99	48	27	17	6	.....	.....	.....	2,709											
			Males ... Females.	....	....	8 5	15 14	17 17	30 24	30 29	39 34	52 48	53 32	59 45	64 61	75 66	451 375	....	....		451 375											
			Total....	826	....	13	29	34	54	59	73	100	85	104	125	141	826	.....	.....			826										
All Aged under One Year.			Males ... Females.	....	745 543	196 153	147 129	129 128	115 93	113 94	110 98	114 85	78 55	77 64	73 69	77 70	....	....	....	....	....	....	1,964 1,571									
			Total....	3,535	1278	349	276	257	208	207	208	199	133	131	142	147	.....	.....	.....	.....	.....	.....	.....	3,535								

* Excluding 9 males and 5 females, month of death unknown; and 15 deaths of persons of unknown sex,—29 in all.

EXHIBIT 3.—*Of the Children Born in 1872, the Number that Died during the Year 1872; the Number that Died during the Year 1873, under One Year of Age; the Total Number that Died under One Year of Age; and the Per Cent. of Decedents aged under One Year to the Children Born in 1872.*

MONTHS OF BIRTHS.	Births in 1872, as Returned.[a]	BORN IN 1872.				Births of Males in 1872, as Returned.	MALES BORN IN 1872.				Births of Females in 1872, as Returned.	FEMALES BORN IN 1872.			
		Died during the Year 1872.	Died Aged under 1 Year during the Year 1873.	Died Aged under 1 Year.	Per Cent. of Deaths under 1, to Births.		Died during the Year 1872.	Died Aged under 1 Year during the Year 1873.	Died Aged under 1 Year.	Per Cent. of Deaths under 1, to Births.		Died during the Year 1872.	Died Aged under 1 Year during the Year 1873.	Died Aged under 1 Year.	Per Cent. of Deaths under 1, to Births.
Total	27,965	2,505	826	3,331	11.91	14,446	1,392	451	1,843	12.76	13,441	1,113	375	1,488	11.07
January	1,774	223	.....	223	12.57	910	119	.....	119	13.08	863	104	.....	104	12.05
February	1,899	236	7	243	12.80	987	132	4	136	13.78	910	104	3	107	11.76
March	2,195	276	12	288	13.12	1,148	145	6	151	13.15	1,043	131	6	137	13.14
April	2,253	259	18	277	12.29	1,188	141	12	153	12.88	1,059	118	6	124	11.71
May	2,281	250	35	285	12.49	1,198	153	24	177	14.77	1,078	97	11	108	10.02
June	2,250	236	32	268	11.91	1,157	119	15	134	11.58	1,085	117	17	134	12.26
July	2,413	256	38	294	12.18	1,286	143	21	164	12.75	1,123	113	17	130	11.58
August	2,817	231	92	323	11.47	1,431	133	50	183	12.79	1,380	98	42	140	10.14
September	2,713	170	134	304	11.21	1,361	97	74	171	12.56	1,344	73	60	133	9.90
October	2,428	129	137	266	10.95	1,282	79	82	161	12.56	1,137	50	55	105	9.23
November	2,357	102	147	249	10.56	1,185	54	77	131	11.05	1,157	48	70	118	10.20
December	2,585	137	174	311	12.03	1,313	77	86	163	12.41	1,262	60	88	148	11.81

[a] Excluding 28 in unknown month,—11 males, 12 females, and 5 unknown sex.

Exhibit 3 is made to show what proportion of the children born in 1872 died before reaching the age of one year. This exhibit shows a larger per cent. than did the corresponding exhibit for the previous year. Exhibit 3 in Report for 1872, page 211, shows the per cent. of children born in 1871 who died under one year of age to be, for total, 9.48, while this Exhibit shows the per cent. to be 11.91. The largest per cent. in the Exhibit for 1872 is 10.77, in October; the largest per cent. in this Exhibit for 1873 is 13.12, in March. The smallest per cent. in the Exhibit for 1872 is 8.50, in May and September; the smallest in the Exhibit for 1873 is 10.56, in November.

Of 100 children born in 1872, 1.69 more males than females died under one year of age, as shown by this Exhibit; in the similar Exhibit for 1872, concerning children born in 1871, the excess of males was considerably larger, being 2.03.

If we take the number of deaths of males and of females under one year of age, as shown in Exhibit 3, on page 211, Vital Statistics, 1872, and increase it by the per cent. thought necessary to account for the loss in the enumeration as indicated on page 208 of the same Report, we find that the proportion of all children born in 1871 who died under one year of age is shown to be different from that shown by the Life Table VII., page 196, Vital Statistics, 1872, based upon the death-rate in 1870, and relating, therefore, to children born in 1869 and 1870. In that table, the proportion of all children born who die under one year of age is shown to be 16.91 per cent. for males, and 13.50 per cent. for females, whereas the computations on the numbers shown in Exhibit 3, for children born in 1871, show the proportions to be 12.18 per cent. for males, and 9.19 per cent. for females; and after the corrections are applied to the deaths under one year of age in Exhibit 3, for children born in 1872, the proportions are: 11.87 per cent. for males, and 12.02 per cent. for females. This discrepancy between the evidence in the Life Table, concerning children born in 1869–70, and that in the exhibits, relative to children born in 1871 and 1872, may be due to either one of two facts: The death-rate of children under one year of age may have been greater in 1870 than among the children born in 1871, and greater than among those born in 1872; or the details of the correction for omissions in enumeration may not yet be perfect. According to the best evidence to be obtained from these statistics, there seem to be differences in different years in the death-rates among children; but it will require observation and study of the subject for a series of years before the real average death-rate among children in Michigan can be learned.

EXHIBIT 4.—*The Months of Birth and of Death of Children born in 1872 who Died Under One Year of Age, According to the Returns.*

MONTHS OF BIRTHS, 1872.	Born in '72, Died under 1 Year of Age.	Months of Death, 1872.												Months of Death, 1873.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Born in 1872—died aged under one year	3,331	54	74	125	110	134	121	288	488	377	275	178	281	95	191	105	78	81	62	108	108	63	19	6	....
January	223	54	10	17	8	12	5	23	34	26	14	13	7	..	...	....	....	....	....	....	....	..	....	....	....
February	243	....	64	17	11	15	9	30	44	17	12	10	7	7	..	....	....	....	....	....	....	....	....	....	....
March	288	....	....	91	16	10	15	31	53	37	11	3	9	5	7	..	....	....	....	....	....	....	....	....	....
April	277	....	....	....	75	21	15	42	46	32	13	9	6	4	5	9	..	....	....	....	....	....	....	....	....
May	285	....	....	....	....	76	15	35	57	34	20	8	5	3	6	12	14	..	....	....	....	....	....	....	....
June	268	....	....	....	....	....	62	26	56	40	25	8	19	3	5	7	10	7	..	....	....	....	....	....	....
July	294	....	....	....	....	....	....	101	68	31	33	11	12	6	9	5	5	7	6	..	....	....	....	....	....
August	323	....	....	....	....	....	....	....	130	52	25	13	11	17	11	13	10	12	9	20	..	....	....	....	...
September	304	....	....	....	....	....	....	....	....	108	36	12	14	14	15	18	14	9	12	21	31	..	....	....	....
October	286	....	....	....	....	....	....	....	....	....	86	23	20	10	16	13	10	15	9	13	25	26	..	....	....
November	249	....	....	....	....	....	....	....	....	....	....	68	34	13	11	15	6	14	12	20	28	20	8	..	....
December	311	....	....	....	....	....	....	....	....	....	....	....	137	13	16	13	9	17	14	24	24	17	11	6	..
Deaths at each Age — No. of Deaths	3,331	....	....	....	....	....	....	....	....	....	....	....	....	1052	331	261	271	233	228	217	176	132	137	145	148
Deaths at each Age — Ages in Months	.....	....	....	....	....	....	....	....	....	....	....	....	....	-1	1	2	3	4	5	6	7	8	9	10	11

Exhibit 4 shows the distribution throughout the years 1872 and 1873 of the deaths of the children born in 1872 who died before reaching the age of one year. The first column shows, for the year and each month of the year, the children born in 1872 who died under one year of age; and the other columns to the right show the months of the years 1872 and 1873 in which these children died. The two lines at the bottom of the Exhibit show the number of deaths at each month of age under one year. Nearly one-third of the entire number for the year were deaths of those who died before reaching the age of one month; that is, they died during the month of birth. According to the returns, the greatest number of deaths among children under one month of age was, as shown by Exhibit 4, of those born in December; and the next greatest, of those born in August. The greatest number of deaths among children under one year of age was of children born in August; and the next greatest number, was of children born in December.

In interpreting the evidence in Exhibit 4, the reader should not conclude that it positively determines the relative danger to children born in each month. That would be a valuable table which should do this, but one exceedingly difficult to construct, at present, because it would be necessary to compute, for each month, the proportion which the decedents are of the whole number of children.

As the births are more numerous in some than in other months, it will not do to come to a conclusion from the numbers of deaths alone; and as the number of deaths in one month may be increased or diminished because of a greater or a less number of births in the preceding month, it is not positively conclusive, but only approximative, to compute the proportion which the decedents are of the children born in the same month; nevertheless, this is about the best that can be done, as yet, and is in advance of any tables which have come to the notice of the compiler. Such a computation has been made, and is here given in Exhibit 5.

EXHIBIT 5.—*By Sex, and by Months, the Relation of the Decedents Aged Under One Month to the Births in Michigan during the Year 1873, According to the Returns.*

SEX, ETC., SPECIFIED.		Year, 1873.	Months, 1873.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total	Births	34,608	2,112	2,249	2,847	2,711	2,794	2,599	2,915	3,342	3,436	3,165	3,017	3,351	70
	Decedents aged under one month*	1,299	67	106	115	105	77	101	111	120	134	115	107	133	8
	Per cent. of decedents to births	3.72	3.17	4.71	4.04	3.87	2.76	3.89	3.81	3.56	3.90	3 63	3.55	3.97	11.43
Males	Births	17,908	1,081	1,168	1,469	1,400	1,448	1,316	1,533	1,746	1,778	1,603	1,571	1,767	28
	Decedents aged under one month	740	35	60	64	55	47	55	62	66	72	67	70	82	5
	Per cent. of decedents to births	4.13	3.24	5.14	4.36	3.93	3.24	4.18	4.04	3.78	4.05	4.18	4.46	4.64	17.86
Females	Births	16,632	1,029	1,074	1,369	1,304	1,340	1,278	1,376	1,592	1,649	1,561	1,440	1,581	39
	Decedents aged under one month	545	32	45	51	48	30	45	48	53	62	47	34	48	2
	Per cent. of decedents to births	3.28	3.11	4.19	3.73	3.68	2.24	3.52	3.49	3.33	3.76	3.01	2.36	3.04	5.13
Unknown	Births	68	2	7	9	7	6	5	6	4	9	1	6	3	3
	Decedents aged under one month	14	.....	1	.....	2	.....	1	1	1	.....	1	3	3	1

*Still-births included.

TABLE IX.—*Deaths in Michigan, during the Year 1873, of those Aged One Hundred Years and Over, exhibiting all the details concerning them included in the Returns.*

NAMES.	Sex.	Color.	Married, Single, or Widowed.	Birthplace.	Age.			Occupation.	Place of Death.		Date of Death.		Cause of Death.
					Years.	Mo's.	Days.		Town.	County.	Month.	Day.	
Peter Orr	Male	White	Widower	Ireland	100	[a]	[a]	Shoemaker	Barry	Barry	May	10	Debility.
Mary Babapusqua	Female	White	Widow	Michigan	100	[a]	[a]	None	Little Traverse.	Emmet	Oct.	28	Old Age.
Amos Boles	Male	Black	Married	Virginia	100	[a]	[a]	Laborer	Detroit City	Wayne	June	1	Dropsy.
Francis Peters	Male	White	Married	Michigan	100	2	23	Farmer	Grosse Point	Wayne	April	7	Old Age.

[a] Not stated.

The number of inhabitants not represented by the returns of deaths has been constantly decreasing since 1871, as shown by Exhibit H for each year. In 1871 the number of inhabitants not represented in the returns of deaths was 40,829; in 1872 the number was 26,227; and in 1873 it was 8,551.

If the Supervisors and Assessors would perform the duties in obedience to the law, there would be no townships or cities in the State which would not be represented in the returns, inasmuch as returns should be made from each township and ward *whether or not any births or deaths occurred.*

EXHIBIT H.—*Counties and Townships from which no Returns of Deaths for 1873 were received by this Department, showing Population, June 1, 1870, by Sex, Color, and Nativity.*

COUNTIES.	TOWNSHIPS.	POPULATION, JUNE 1, 1870.			COLOR OR RACE.									NATIVITY.			
					WHITE.			MULATTO.			INDIAN.			NATIVE.		FOREIGN.	
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Males.	Females.	Males.	Females.
Total		8,551	4,924	3,627	8,428	4,857	3,571	9	7	2	114	60	54	3,175	2,690	1,749	937
Antrim	Central Lake[a]																
	Otsego Lake[a]																
	Torch Lake	269	159	110	269	159	110							105	80	54	30
Benzie	Benzonia	214	110	104	214	110	104							102	92	8	12
	Colfax	71	36	35	71	36	35							31	29	5	6
	Joyfield	130	70	60	121	63	58	9	7	2				64	55	6	5
	Weldon	74	41	33	74	41	33							33	27	8	6
Charlevoix	Boyne Valley[a]																
	Evangeline	90	53	37	90	53	37							33	31	20	6
	Eveline	294	162	132	294	162	132							98	94	64	38
Chippewa	Sugar Island	238	133	105	150	82	68				88	51	37	66	60	67	45
Clare	Winterfield[a]																
Delta	All Townships	2,441	1,486	955	2,422	1,480	942				19	6	13	699	604	787	351
Iosco	Edwards[a]																
	Grant	107	63	44	107	63	44							47	33	16	11
	Thompson[a]																
	Ogemaw[a]																
Isabella	Broomfield	118	81	37	118	81	37							48	25	33	12
	Fremont	342	175	167	342	175	167							149	146	26	21

Kalkaska	Boardman[a]																
	Orange[a]																
	Wilson[a]																
Keweenaw	Isle Royal[b]																
Manistee	Filer	376	211	165	376	211	165							99	81	112	84
	Springdale[a]																
Manitou	Chandler	190	106	84	190	106	84							63	54	43	30
	South Manitou	76	38	38	76	38	38							24	27	14	11
Mason	Branch[a]																
	Hamlin	124	80	44	117	77	40				7	3	4	35	28	45	16
Midland	Ingersoll	402	223	179	402	223	179							152	117	71	62
	Mt. Hayley[a]																
	Porter	82	46	36	82	46	36							36	29	10	7
	Roscommon[a]																
Montcalm	Belvidere	54	31	23	54	31	23							29	22	2	1
	Home	173	101	72	173	101	72							94	68	7	4
	Richland	88	52	36	88	52	36							47	34	5	2
Muskegon	Eggleston	233	138	95	233	138	95							113	81	25	14
	Norton	688	437	251	688	437	251							285	187	152	64
Newaygo	Croton	923	489	434	923	489	434							397	381	92	53
Ontonagon	Algonquin	54	30	24	54	30	24							17	15	13	9
Osceola	Hartwick	47	25	22	47	25	22							23	22	2	
	Highland	58	33	25	58	33	25							24	21	9	4
	Lincoln	336	186	150	336	186	150							141	122	45	28
Presque Isle	Presque Isle[a]																
Wexford	Cedar Creek[a]																
	Cherry Grove[a]																
	Henderson[a]																
	Wexford	259	129	130	259	129	130							121	125	8	5

[a] Organized since Census was taken. [b] No population reported in 1870.

In this Exhibit I may be seen the townships in which it is reported that no deaths occurred in 1873. By comparing this with the corresponding Exhibits for previous years, it may be seen that the number of inhabitants among whom it is reported that no deaths occurred has been constantly decreasing: In the Report for 1871 the number of inhabitants in 1870 not represented by deaths in 1871 was stated as 6,233; in the Report for 1872 the number not represented by deaths in 1872 was 2,629; and in this Report, the number of inhabitants in 1870 not represented by deaths in 1873 is only 356. That is, in each succeeding year, either fewer inhabitants have been exempt from the visitation of death, or a more complete search has revealed the fact of deaths under circumstances such as those under which deaths were formerly overlooked; or, what is just as reasonable to conclude, the increase in inhabitants since the Census of 1870 has resulted in the occurrence of deaths in townships which, because of few inhabitants, suffered no deaths in previous years.

EXHIBIT I.—*Counties and Townships in which it is Reported that no Deaths Occurred in 1873.*

COUNTIES.	TOWNSHIPS.	POPULATION, JUNE 1, 1870.		
		Total.	Males.	Females
Total		356	209	147
Antrim	Torch Lake	269	159	110
Clare	Sheridan	87	50	37
Missaukee	Clam Union[a]			
	Pioneer[a]			
	Riverside[a]			
	West Branch[a]			

[a] Organized since Census was taken.

TABLE X.—*Exhibiting, for the State and Counties, by Sex, the Number of Deaths Returned as having occurred in Michigan during the Year 1873, and in each Month of the Year; also the Number of Deaths at each Period of Age.*

STATE AND COUNTIES.	Sex.	Year, 1873.	Months, 1873.												Ages.																
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
STATE[a]	Total	14,238	859	1104	1248	1174	1121	1040	1176	1535	1471	1258	1067	1136	69	5899	838	530	648	759	580	463	544	445	427	399	360	489	431	466	341	404	232
	Males	7,651	446	583	647	630	586	567	613	841	777	697	588	640	36	3249	450	260	324	364	250	211	253	238	245	240	197	291	234	276	192	243	134
	Females	6,590	413	520	601	541	535	471	561	693	694	560	476	493	32	2634	388	270	324	395	330	252	291	207	182	159	163	198	197	190	152	161	97
	Unknown	17	....	1	....	3	....	2	2	1	....	1	3	3	1	16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Alcona	Total	17	1	1	2	2	1	1	2	4	....	2	....	1	..	11	1	....	....	1	....	....	1	....	....	1	1	1	....	....	....	....	....
	Males	11	1	1	2	2	1	....	1	2	....	1	....	....	..	6	1	....	....	1	....	....	1	....	....	....	1	1	....	....	....	....	....
	Females	6	....	....	....	....	....	1	1	2	....	1	....	1	..	5	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Allegan	Total	453	28	52	46	35	32	37	28	29	55	40	37	33	1	165	28	21	22	19	16	20	14	21	18	20	13	19	13	23	12	8	1
	Males	215	15	17	19	17	12	17	15	15	27	22	18	20	1	89	12	9	14	6	3	4	5	9	9	8	6	11	4	13	9	3	1
	Females	238	13	35	27	18	20	20	13	14	28	18	19	13	..	76	16	12	8	13	13	16	9	12	9	12	7	8	9	10	3	5	....
Alpena	Total	44	....	6	1	1	2	3	2	5	6	3	11	4	..	28	....	2	1	6	1	1	1	1	....	....	2	1	....	....	....	....	....
	Males	23	....	3	1	1	1	2	2	2	3	2	5	1	..	12	....	1	....	5	....	1	....	1	....	....	2	1	....	....	....	....	....
	Females	21	....	3	....	....	1	1	....	3	3	1	6	3	..	16	....	1	1	1	1	....	1	....	....	....	....	....	....	....	....	....	....
Antrim	Total	26	1	2	1	4	4	3	4	2	2	....	2	1	..	6	1	1	1	3	4	....	....	2	1	2	1	1	....	1	1	....	1
	Males	11	1	....	....	2	2	....	1	2	1	....	1	1	..	3	1	....	....	1	1	....	....	1	....	1	1	1	....	1	....	....	....
	Females	15	....	2	1	2	2	3	3	....	1	....	1	....	..	3	....	1	1	2	3	....	....	1	1	1	....	....	....	....	1	....	1

[a] For counties and townships not represented by *returns* of deaths in 1873, see Exhibit H, preceding.

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.												AGES.																
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Barry	Total	250	23	26	27	22	27	13	17	19	27	23	10	16	..	83	17	19	15	10	5	13	11	3	5	2	6	10	8	14	15	11	3
	Males	121	13	9	15	8	19	6	8	12	11	11	5	4	..	46	6	8	8	3	3	7	3	2	2	....	3	4	6	4	7	8	1
	Females	129	10	17	12	14	8	7	9	7	16	12	5	12	..	37	11	11	7	7	2	6	8	1	3	2	3	6	2	10	8	3	2
Bay	Total	279	6	20	33	14	23	26	39	43	24	12	18	19	2	166	18	5	9	7	10	7	10	8	7	6	3	2	8	2	4	3	4
	Males	150	3	13	21	11	18	14	21	17	10	5	10	6	1	86	10	2	3	4	4	4	8	4	5	5	1	2	3	1	3	2	3
	Females	127	3	7	12	3	5	12	18	26	14	7	8	11	1	78	8	3	6	3	6	3	2	4	2	1	2	....	5	1	1	1	1
	Unknown	2	....	....	....	....	....	....	....	....	....	....	....	2	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
Benzie	Total	26	1	2	....	2	3	1	2	3	5	3	2	2	..	15	....	1	1	....	1	....	1	1	1	1	....	1	1	..	1	..	1
	Males	18	1	1	....	1	1	1	2	2	3	2	2	2	..	11	....	1	1	....	....	....	....	1	1	1	....	....	1	..	..	..	1
	Females	8	....	1	....	1	2	....	....	1	2	1	....	....	..	4	....	....	....	....	1	....	1	....	....	....	....	1	..	..	1	..	..
Berrien	Total	461	58	47	37	26	25	24	23	45	54	53	28	36	5	185	36	18	23	21	14	12	13	26	19	15	8	18	18	12	9	3	11
	Males	245	27	21	16	14	11	14	15	24	29	34	16	21	3	109	15	8	12	10	4	4	6	14	13	9	6	14	6	4	3	1	7
	Females	216	31	26	21	12	14	10	8	21	25	19	12	15	2	76	21	10	11	11	10	8	7	12	6	6	2	4	12	8	6	2	4
Branch	Total	219	11	22	25	22	17	12	10	20	24	26	16	14	..	65	15	10	10	12	11	9	9	2	8	7	7	8	11	10	11	12	2
	Males	122	7	10	13	10	11	9	5	11	15	17	7	7	..	40	8	5	3	5	4	5	5	....	3	5	2	5	9	6	9	6	2
	Females	97	4	12	12	12	6	3	5	9	9	9	9	7	..	25	7	5	7	7	7	4	4	2	5	2	5	3	2	4	2	6	..

Calhoun	*Total*	388	25	44	37	35	33	23	22	31	36	37	30	35	106	18	13	20	22	14	15	17	13	17	18	20	17	23	20	14	18	3
	Males	199	9	17	18	17	18	12	16	15	21	17	22	17	55	9	7	11	9	5	5	6	5	10	8	12	9	11	14	10	12	1
	Females	188	16	26	19	18	15	11	6	16	15	20	8	18	50	9	6	9	13	9	10	11	8	7	10	8	8	12	6	4	6	2
	Unknown	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cass	Total	175	10	11	17	20	12	14	5	13	24	12	19	17	59	11	8	7	10	6	8	6	9	5	2	5	9	10	6	3	9	2
	Males	95	7	5	6	14	5	8	1	5	10	7	14	12	36	8	2	4	6	2	3	1	4	3	..	1	7	5	5	2	6	..
	Females	80	3	6	11	6	7	6	4	8	14	5	5	5	23	3	6	3	4	4	5	5	5	2	2	4	2	5	1	1	3	2
Charlevoix	Total	18	1	3	..	..	1	1	1	1	3	2	2	3	9	1	..	1	1	1	1	2	..	..	..	..	..	1	..	1	..	..
	Males	8	1	2	..	..	..	..	..	1	2	1	..	..	3	..	..	1	1	..	1	1	..	..	..	..	..	..	1	..	..	..	..
	Females	10	..	1	..	..	1	1	1	..	1	1	2	2	6	1	..	..	..	1	..	1	..	..	..	..	..	..	..	..	1	..	..
Cheboygan	Total	22	2	1	2	..	1	2	3	5	1	1	2	2	12	..	..	1	6	..	..	..	..	..	1	..	1	..	1	..	..	..
	Males	12	..	..	1	..	1	1	1	5	..	1	1	..	8	..	..	..	2	..	..	..	..	..	1	..	..	..	1	..	..	..
	Females	10	2	1	1	..	..	1	2	..	1	..	1	..	4	..	..	1	4	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Chippewa	Total	21	2	..	..	1	3	..	2	4	5	2	1	..	12	1	1	2	1	..	..	1	..	..	..	1	..	..	..	1	..	1
	Males	14	1	..	..	1	1	..	1	2	4	2	1	..	9	..	..	2	..	..	..	1	..	..	..	1	..	..	..	..	..	1
	Females	7	1	..	..	..	2	..	1	2	1	..	..	..	3	1	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
Clare	Total	21	..	1	..	1	1	2	5	3	2	2	2	2	13	1	2	..	1	..	1	1	1	..	..	..	1	..	..	..	..	..
	Males	14	..	..	..	1	1	1	3	2	2	1	1	2	9	..	2	..	1	..	1	..	1	..	..	..	..	..	..	..	..	..
	Females	7	..	1	..	..	..	1	2	1	..	1	1	..	4	1	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..
Clinton	Total	194	5	13	23	23	21	15	20	14	17	17	12	14	78	12	7	10	14	8	10	4	6	4	2	6	9	7	4	5	7	1
	Males	89	2	5	13	10	8	5	5	8	9	10	7	7	37	6	2	5	6	1	4	1	2	1	1	3	7	3	3	2	4	1
	Females	105	3	8	10	13	13	10	15	6	8	7	5	7	41	6	5	5	8	7	6	3	4	3	1	3	2	4	1	3	3	..
Delta	[a]	..	..	..	..	..	..	..	..	..	..	..	..	..	....	..	....	....	....	....	....	....	....	....	....	....	..	..	..	..	..	..	..

[a] County Clerk says no returns from Supervisors.

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.												AGES.																
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Eaton	Total	285	14	20	30	22	20	23	13	34	35	32	18	17	7	97	10	9	11	15	11	12	15	9	12	9	12	9	12	17	10	5	10
	Males	152	7	11	18	9	7	10	8	17	17	22	10	13	3	55	4	6	3	9	6	7	6	6	7	5	6	5	5	11	4	2	5
	Females	131	7	9	12	13	13	13	5	16	18	10	8	4	3	40	6	3	8	6	5	5	9	3	5	4	6	4	7	6	6	3	5
	Unknown	2	....	....	....	....	....	....	....	1	....	..	..	....	1	2	..	....	....	..	....	..	....	....	....	....	..	....	..	..	..	..	..
Emmet	Total	35	4	5	3	2	1	4	2	2	2	6	1	3	..	22	..	2	1	1	....	..	....	....	1	2	1	1	..	1	1	1	1
	Males	15	2	2	....	2	1	1	....	1	1	2	1	2	..	9	..	1	1	..	....	..	....	....	....	2	..	1	..	..	1	..	..
	Females	20	2	3	3	....	....	3	2	1	1	4	..	1	..	13	..	1	....	1	....	..	....	....	1	....	1	....	..	1	..	1	1
Genesee	Total	343	18	23	34	39	26	23	25	34	49	25	18	29	..	135	20	13	15	15	14	11	16	12	8	16	15	12	12	13	10	5	1
	Males	185	9	14	13	21	10	12	19	16	33	9	9	20	..	81	16	6	10	7	6	4	7	6	4	8	5	4	6	7	7	1	..
	Females	158	9	9	21	18	16	11	6	18	16	16	9	9	..	54	4	7	5	8	8	7	9	6	4	8	10	8	6	6	3	4	1
Gr. Traverse	Total	41	6	2	3	4	4	5	2	2	2	3	3	3	2	14	1	1	1	2	2	1	....	2	3	1	1	5	1	1	1	1	3
	Males	23	4	1	2	3	4	....	1	2	....	3	..	2	1	7	1	1	1	1	....	1	....	....	1	1	..	5	1	1	1	..	1
	Females	18	2	1	1	1	....	5	1	....	2	..	3	1	1	7	..	....	....	1	2	..	....	2	2	....	1	....	..	..	..	1	2
Gratiot	Total	143	12	9	14	13	9	13	7	18	20	9	9	10	..	63	8	9	6	10	8	4	4	6	6	4	4	3	4	2	1	..	1
	Males	77	3	4	8	7	4	7	4	10	14	6	5	5	..	32	7	6	4	7	1	1	2	2	3	2	3	1	3	2	1	..	..
	Females	66	9	5	6	6	5	6	3	8	6	3	4	5	..	31	1	3	2	3	7	3	2	4	3	2	1	2	1	..	..	..	1
Hillsdale	Total	317	23	29	44	23	22	25	24	22	33	29	26	17	..	91	18	17	15	18	12	13	14	8	8	8	12	20	14	17	19	12	1
	Males	159	8	12	21	11	16	17	15	13	17	14	9	6	..	46	5	8	6	3	5	8	5	5	4	4	6	14	9	10	11	9	1

| | | |

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.												AGES.																
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Kalamazoo	Total	275	24	29	22	24	21	18	14	36	26	23	23	14	1	88	9	7	14	17	13	10	15	11	9	10	12	19	8	14	5	11	3
	Males	143	12	19	4	13	10	11	5	18	15	15	11	10	..	46	3	4	2	6	6	5	8	6	6	4	8	11	5	10	5	6	2
	Females	132	12	10	18	11	11	7	9	18	11	8	12	4	1	42	6	3	12	11	7	5	7	5	3	6	4	8	3	4	..	5	1
Kalkaska	Total	17	....	....	2	....	1	2	3	1	3	2	1	2	..	8	1	2	....	2	....	....	....	....	....	....	1	....	1	..	..	1	1
	Males	11	....	....	2	....	1	2	2	....	1	1	1	1	..	3	1	2	....	1	....	....	....	....	....	....	1	....	1	..	..	1	1
	Females	6	....	....	....	....	....	....	1	1	2	1	....	1	..	5	....	....	....	1	....	....	....	....	....	....	....	....	....	..	..	..	..
Kent	Total	700	36	47	54	50	55	52	64	86	91	48	52	63	2	317	38	27	36	31	25	13	18	23	25	16	17	18	17	23	20	27	9
	Males	387	16	28	31	26	36	31	35	45	47	28	29	34	1	180	19	14	19	14	6	5	7	15	16	11	13	11	12	14	10	17	4
	Females	313	20	19	23	24	19	21	29	41	44	20	23	29	1	137	19	13	17	17	19	8	11	8	9	5	4	7	5	9	10	10	5
Keweenaw	Total	63	4	2	4	5	4	5	5	11	9	6	4	4	..	29	2	....	3	5	3	2	....	1	....	1	....	2	1	3	..	..	11
	Males	41	2	2	1	4	2	3	2	6	7	6	2	4	..	19	1	....	3	4	2	1	....	....	....	1	....	2	..	1	..	..	7
	Females	22	2	....	3	1	2	2	3	5	2	....	2	....	..	10	1	....	....	1	1	1	....	1	....	....	....	....	1	2	..	..	4
Lake	Total	19	1	3	1	....	3	....	7	2	1	....	1	....	..	13	....	....	2	1	....	1	....	....	....	1	....	....	..	..	..	1	..
	Males	11	1	1	1	....	2	....	4	1	....	....	1	....	..	8	....	....	1	1	....	....	....	....	....	....	....	....	..	..	..	1	..
	Females	8	....	2	....	....	1	....	3	1	1	....	....	....	..	5	....	....	1	....	....	1	....	....	....	1	....	....	..	..	..	..	..
Lapeer	Total	298	18	27	31	25	31	18	16	25	30	32	23	22	..	120	20	11	12	17	16	8	9	5	3	14	6	13	12	10	6	10	6
	Males	156	8	14	16	16	15	10	6	13	18	16	13	11	..	64	7	4	9	11	8	3	3	1	2	7	4	7	7	6	4	7	4
	Females	140	10	13	15	9	16	8	10	12	12	15	9	11	..	54	13	7	3	6	8	5	6	4	1	7	2	6	5	4	2	3	2
												1	1			2																

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TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.												AGES.																
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Mason	Total	57	4	....	2	3	2	3	5	2	11	11	6	8	..	32	1	1	1	2	1	4	5	1	2	3	....	3	..	1	..	..	..
	Males	28	2	....	....	1	1	1	5	....	6	6	4	2	..	18	1	....	....	1	....	1	1	....	2	1	....	2	..	1	..	..	..
	Females	29	2	....	2	2	1	2	....	2	5	5	2	6	..	14	....	1	1	1	1	3	4	1	....	2	....	1	..	..	..	..	..
Mecosta	Total	92	6	10	1	5	6	6	7	18	12	6	9	5	1	49	7	5	2	3	5	5	4	4	2	....	1	1	1	2	..	1	..
	Males	54	6	7	....	3	4	3	5	9	5	3	5	3	1	32	4	5	1	....	2	3	1	2	1	....	1	....	1	1	..	..	..
	Females	38	....	3	1	2	2	3	2	9	7	3	4	2	..	17	3	....	1	3	3	2	3	2	1	....	....	1	..	1	..	1	..
Menominee	Total	45	2	....	....	2	1	3	12	6	3	5	1	4	6	34	....	4	2	1	....	1	1	1	....	....	....	1	..	..	..	..	..
	Males	20	1	....	....	....	1	....	6	3	2	1	....	2	4	15	....	3	1	....	....	....	1	....	....	....	....	....	..	..	..	..	..
	Females	25	1	....	....	2	....	3	6	3	1	4	1	2	2	19	....	1	1	1	....	1	....	1	....	....	....	1	..	..	..	..	..
Midland	Total	66	....	2	4	10	4	8	4	10	4	5	13	2	..	40	6	3	1	4	2	1	2	....	2	1	2	1	..	1	..	..	..
	Males	39	....	2	4	6	2	5	3	4	3	1	8	1	..	23	5	....	1	3	....	1	1	....	1	1	1	1	..	1	..	..	..
	Females	27	....	....	....	4	2	3	1	6	1	4	5	1	..	17	1	3	....	1	2	....	1	....	1	....	1	....	..	..	..	..	..	..
Missaukee	Total	7	....	1	....	....	1	....	1	3	....	1	....	....	..	4	....	....	....	1	1	....	....	1	....	....	....	....	....	..	..	..	..	..
	Males	2	....	....	....	....	1	....	....	1	....	....	....	....	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	..	..	..	..	..
	Females	5	....	1	....	....	....	....	1	2	....	1	....	....	..	2	....	....	....	1	1	....	....	1	....	....	....	....	....	..	..	..	..	..
Monroe	Total	244	7	16	15	25	26	22	15	27	27	18	25	21	..	97	11	5	16	11	8	7	9	11	8	3	3	11	11	13	8	8	4
	Males	135	5	12	10	12	12	13	9	15	9	10	16	13	..	53	5	2	7	7	2	5	4	4	5	1	2	9	9	10	3	4	3
	Females	109	2	4	5	13	14	10	6	12	18	8	9	8	..	44	6	3	9	4	6	2	5	7	3	2	1	2	2	3	5	4	1

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TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	YEAR, 1873.	MONTHS, 1873.												AGES.																
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Ottawa	Total	376	25	27	32	35	40	20	26	37	48	25	35	26	.	165	33	10	18	8	9	12	19	12	10	8	8	13	5	11	13	8	14
	Males	197	11	17	16	19	14	15	17	20	24	14	19	11	.	89	15	6	9	5	4	7	8	5	6	6	3	9	3	5	4	5	8
	Females	179	14	10	16	16	26	5	9	17	24	11	16	15	.	76	18	4	9	3	5	5	11	7	4	2	5	4	2	6	9	3	6
Presque Isle	Total	2	....	1	..	....	....		1	....	....	..	....	....	.	..	....	....	....		1	....	..	..	..	..	..	....	..	..	..	..	..	..
	Males	....	....	....	..	....	....		....	....	....	..	....	....	..	....	....	....	....		....	....	..	..	..	..	..	....	..	..	..	..	..	..
	Females	2	....	1		....	....		1	....	....	..	....	....	.	..	....	....	....		1	....	..	..	..	..	..	....	..	..	..	..	..	..
Saginaw	Total	664	36	55	44	52	58	47	77	70	70	61	40	54	.	334	45	25	39	39	37	16	18	21	12	12	18	14	11	5	6	6	6
	Males	349	21	30	23	28	27	23	36	37	38	30	22	34	.	173	21	10	17	18	23	7	8	16	8	7	12	9	7	2	2	4	5
	Females	315	15	25	21	24	31	24	41	33	32	31	18	20	.	161	24	15	22	21	14	9	10	5	4	5	6	5	4	3	4	2	1
Sanilac	Total	176	12	14	16	15	13	7	9	16	15	16	16	19	8	76	16	7	6	13	6	4	12	1	3	4	2	5	6	4	5	3	3
	Males	82	7	6	9	9	6	3	2	7	6	8	8	8	3	39	5	3	2	5	3	....	3	..	..	1	1	5	4	3	3	2	3
	Females	94	5	8	7	6	7	4	7	9	9	8	8	11	5	37	11	4	4	8	3	4	9	1	3	3	1	....	2	1	2	1	..
Schoolcraft	Total	17	..	....	1	3	....	4	1	3	2	1	1	1	.	12	....	....	1		1	....	..	..	2	..	..	....	..	..	..	..	..
	Males	7	..	....	..	2	....	1	....	2	1	..	....	1	.	3	....	....	1		....	....	..	..	2	..	..	....	..	..	..	..	..
	Females	10	..	....	1	1	....	3	1	1	1	1	1	....	.	9	....	....	....		1	....	..	..	..	..	..	....	..	..	..	..	..
Shiawassee	Total	191	9	13	25	17	17	17	12	12	19	19	15	16	.	69	13	4	15	6	11	10	6	9	4	9	5	7	5	6	8	3	1
	Males	93	3	6	11	8	8	5	5	8	13	12	9	5	.	37	7	1	6		7	1	1	5	3	5	3	3	2	3	7	1	..
	Females	98	6	7	14	9	9	12	7	4	6	7	6	11	.	32	6	3	9	5	4	9	5	4	1	4	2	4	3	3	1	2	1

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The third figure-column in Table XI. shows the proportion of the sexes in the decedents of different races. The excess, of all colors, is of males; the largest proportion of males is among the Black and Mulatto, which should be considered together because of imperfect distinctions; the least proportion of males is among the Indians.

A comparison of the last two columns indicates that the death-rate is greatest among the Indians. The smallest proportion of deaths of males is among this race showing the largest death-rate.

Details relative to deaths by counties, by sex and color of decedents, are given in Table XII.

TABLE XI.—*Deaths in Michigan during the Year 1873, distinguishing the Color by Number and Proportion of each Sex, and, by Sex, the Per Cent. of Deaths of each Color to Total of All Colors, and Per Cent. of Inhabitants of each Color to Total of All Colors, June 1, 1870.*

COLOR.	SEX.	Population, June 1, 1870.[a]	Number of Deaths Returned.	Per Cent. of Deaths of each Sex to Total of Both Sexes.	Males to 100 Females.	Per Cent. of Deaths of each Color to Total of all Colors, by Sex.	Per Ct. of Inhabitants of each Color to Total of all Colors, by Sex, June 1, 1870.[a]
All Colors	Total	1,175,731	14,258	.....	.....	100.00	100.00
	Males	613,327	7,651	53.73	116.08	100.00	100.00
	Females	562,404	6,590	46.27	.....	100.00	100.00
	Unknown	.....	17	.....	.....	100.00	100.00
White	Total	1,159,323	13,799	.....	.....	96.78	98.60
	Males	604,819	7,415	53.77	116 30	96.92	98.61
	Females	554,504	6,376	46.23	.....	96.75	98.59
	Unknown	.....	8	.....	.....	47.06	.....
Black	Total	5,551	103	.....	.....	.72	.47
	Males	3,047	56	54.37	119.15	.73	.50
	Females	2,474	47	45.63	.....	.71	.44
Mulatto	Total	6,214	38	.....	.....	.27	.5
	Males	3,133	21	55.26	123.53	.27	.51
	Females	3,081	17	44.74	.....	.26	.55
Indian	Total	4,673	127	.....	.....	.89	.40
	Males	2,328	66	51.97	108.20	.86	.38
	Females	2,345	61	48.03	.....	.93	.42
Unknown	Total	.....	191	.....	.....	1.34	.....
	Males	.....	93	51.10	104.49	1.22	.....
	Females	.....	89	48.90	.....	1.35	.....
	Unknown	.....	9	.....	.....	52.94	.....
Black and Mulatto	Total	11,735	141	.....	.....	.99	.99
	Males	6,180	77	54.61	120.31	1.01	1.01
	Females	5,555	64	45.39	.....[a]	.97	.99

[a] Population represented by returns of deaths in 1873.

TABLE XII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Color of All Persons Returned as having Died in Michigan during the Year ending December 31, 1873.*

STATE AND COUNTIES.	All Colors.				White.				Black.				Mulatto.				Indian.				Unknown.				NOTES AND REMARKS.
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	
STATE	14,258	7,651	6,590	17	13,799	7,415	6,376	8	103	[a]56	[b]47	..	38	21	17	..	127	[c]66	[d]61	..	191	93	89	9	[a] 5 "Colored." [b] 2 African, 4 "Colored." [c] 5 White and Indian. [d] White and Indian.
Alcona	17	11	6	....	17	11	6	....	....	....	....	..	....	....	....	..	....	....	....	..	....	....	....	..	
Allegan	453	215	238	....	449	212	237	....	1	1	....	..	3	2	1	..	....	....	....	..	....	....	....	..	
Alpena	44	23	21	....	44	23	21	....	....	....	....	..	....	....	....	..	....	....	....	..	....	....	....	..	
Antrim	26	11	15	....	24	10	14	....	....	....	....	..	....	....	....	..	2	1	1	..	....	....	....	..	
Barry	250	121	129	....	249	120	129	....	....	....	....	..	1	1	....	..	....	....	....	..	....	....	....	..	
Bay	279	150	127	2	270	144	124	2	....	....	....	..	....	....	....	..	9	6	3	..	....	....	....	..	
Benzie	26	18	8	....	26	18	8	....	....	....	....	..	....	....	....	..	....	....	....	..	....	....	....	..	
Berrien	461	245	216	....	457	244	213	....	4	[e]1	3	..	....	....	....	..	....	....	....	..	....	....	....	..	[e] 1 "Colored."
Branch	219	122	97	....	218	121	97	....	....	....	....	..	1	1	....	..	....	....	....	..	....	....	....	..	
Calhoun	388	190	188	1	374	192	182	....	10	4	6	..	....	....	....	..	3	3	....	..	1	....	....	1	
Cass	175	95	80	....	154	85	69	....	5	2	3	..	14	8	6	..	....	....	....	..	2	....	2	..	
Charlevoix	18	8	10	....	8	2	6	....	2	1	1	..	....	....	....	..	8	5	3	..	....	....	....	..	
Cheboygan	22	12	10	....	20	11	9	....	....	....	....	..	....	....	....	..	2	[f]1	[f]1	..	....	....	....	..	[f] 1 White and Indian.
Chippewa	21	14	7	....	16	11	5	....	....	....	....	..	....	....	....	..	5	[g]3	[g]2	..	....	....	....	..	[g] 2 White and Indian.
Clare	21	14	7	....	21	14	7	....	....	....	....	..	....	....	....	..	....	....	....	..	....	....	....	..	
Clinton	194	89	105	....	194	89	105	....	....	....	....	..	....	....	....	..	....	....	....	..	....	....	....	..	
Delta[h]	.....	.....	.....	....	...	.....	.....	....	....	....	....	..	....	....	....	..	....	....	....	..	....	....	....	..	

[h] County Clerk says no returns from Supervisors.

TABLE XII.—CONTINUED.—*Deaths by Counties, by Color, and by Sex.*

COUNTIES.	ALL COLORS.				WHITE.				BLACK.				MULATTO.				INDIAN.				UNKNOWN.				NOTES AND REMARKS.
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	
Eaton	285	152	131	2	282	152	130	....	....	....	..	..	....	....	....	..	....	..	....	..	3	..	1	2	
Emmet	35	15	20	....	4	2	2	....	....	....	..	..	....	....	....	..	25	11	[b]14	..	6	2	4	..	[a] 2 White and Indian. [b] 1 White and Indian.
Genesee	343	185	158	....	340	183	157	....	1	....	1	..	....	....	....	..	2	2	....	..	..	..	....	..	
Grand Traverse	41	23	18	....	26	18	8	....	....	....	..	..	....	....	....	..	....	..	....	..	15	5	10	..	
Gratiot	143	77	66	....	143	77	66	....	....	....	..	..	....	....	....	..	....	..	....	..	..	..	....	..	
Hillsdale	317	159	156	2	316	159	155	2	1	....	1	..	....	....	....	..	....	..	....	..	..	..	....	..	
Houghton	214	125	89	....	204	121	83	....	....	....	..	..	....	....	....	..	10	4	6	..	..	..	....	..	
Huron	113	53	60	....	113	53	60	....	....	....	..	..	....	....	....	..	....	..	....	..	..	..	....	..	
Ingham	242	131	110	1	239	129	110	....	1	1	..	..	....	....	....	..	....	..	....	..	2	1	....	1	
Ionia	258	141	117	....	258	141	117	....	....	....	..	..	....	....	....	..	....	..	....	..	..	..	....	..	
Iosco	68	39	26	3	67	39	26	2	....	....	..	..	....	....	....	..	....	..	....	..	1	..	....	1	
Isabella	69	39	30	....	39	23	16	....	....	....	..	..	....	....	....	..	30	16	14	..	..	..	....	..	
Jackson	333	183	150	....	330	181	149	....	3	[c]2	1	..	....	....	....	..	....	..	....	..	..	..	....	..	[c] 1 "Colored."
Kalamazoo	275	143	132	....	266	137	129	....	3	[d]2	1	..	....	....	....	..	....	..	....	..	6	4	2	..	[d] 2 "Colored." [c] 1 "Colored."
Kalkaska	17	11	6	....	17	11	6	....	....	....	..	..	....	....	....	..	....	..	....	..	..	..	....	..	
Kent	700	387	313	....	675	375	300	....	7	2	5	..	1	....	....	..	....	..	....	..	17	9	8	..	
Keweenaw	63	41	22	....	63	41	22	....	....	....	..	..	....	....	....	..	....	..	....	..	..	..	....	..	
Lake	19	11	8	....	19	11	8	....	....	....	..	..	....	....	....	..	....	..	....	..	..	..	....	..	
Lapeer	298	156	140	2	296	156	139	....	....	....	..	..	1	....	1	..	....	..	....	..	2	..	....	2	
Leelanaw	46	27	19	....	36	21	15	....	....	....	..	..	....	....	....	..	10	6	4	..	..	..	....	..	

Lenawee	406	241	165	....	390	237	162	4	2	2	2	2	....	..	1	..	1	..	....	....	....	..			
Livingston	168	90	78	....	168	90	78	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Mackinac	21	13	8	....	21	13	8	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Macomb	278	142	136	....	277	141	136	1	1	....	....	....	....	..	....	..	....	..	....	....	....	..	[f] 1 "Colored."		
Manistee	101	66	35	....	101	66	35	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Manitou	7	4	3	....	7	4	3	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Marquette	255	174	81	....	255	174	81	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Mason	57	28	29	....	30	12	18	....	..	....	....	....	....	..	4	3	1	..	21	13	10	..			
Mecosta	92	54	38	....	92	54	38	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Menominee	45	20	25	....	43	18	25	....	..	....	....	....	....	..	2	2	....	..	....	....	....	..			
Midland	66	39	27	....	66	39	27	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Missaukee	7	2	5	....	7	2	5	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Monroe	244	135	109	....	233	127	106	....	..	....	3	1	2	..	....	..	....	..	8	7	1	..			
Montcalm	238	114	124	....	238	114	124	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Muskegon	229	128	101	....	229	128	101	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Newaygo	103	51	51	1	7	4	3	....	..	....	....	....	....	..	1	..	1	..	95	47	47	1			
Oakland	304	147	157	....	301	146	155	2	..	[g] 2	....	....	....	..	....	..	....	..	1	1	....	..	[g] 2 African.		
Oceana	108	49	59	....	102	49	53	....	..	....	....	....	....	..	6	..	6	..	....	....	....	..			
Ontonagon	23	15	8	....	23	15	8	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Osceola	68	43	25	....	68	43	25	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Ottawa	376	197	179	....	376	197	179	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Presque Isle	2	.....	2	....	2	.....	2	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			
Saginaw	664	349	315	.e..	663	349	314	1	..	1	....	....	....	..	....	..	....	..	....	....	....	..			
Sanilac	176	82	94	....	175	82	93	....	..	....	....	....	....	..	1	..	1	..	....	....	....	..			
Shiawassee	17	7	10	....	11	4	7	....	..	....	....	....	....	..	6	3	3	..	....	....	....	..			
Tuscola	191	93	98	....	191	93	98	....	..	....	....	....	....	..	....	..	....	..	....	....	....	..			

TABLE XII.—CONTINUED.—*Deaths by Counties, by Color, and by Sex.*

COUNTIES.	ALL COLORS.				WHITE.				BLACK.				MULATTO.				INDIAN.				UNKNOWN.				NOTES AND REMARKS.
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	
St. Clair	494	268	226	....	492	266	226	....	2	2	....	..	....	....			....	....	....		....	....	....		
St. Joseph	201	107	94	....	201	107	94	....	..	..	....	..	....	....			....	....	....		....	....	....		
Tuscola	211	114	97	....	211	114	97	..	..	..	....	..	....	....			....	....	....		....	....	....		
Van Buren	357	187	170	....	353	187	166	..	2	..	[a] 2	..	2	....	2		....	....	....		....	....	....		[a] 2 "Colored."
Washtenaw	359	183	176	....	348	179	169	..	4	1	3	..	....	....	....		....	....	....		7	3	4		
Wayne	1,864	1,043	818	3	1,803	1,003	798	2	49	34	[b] 15	..	10	5	5		....	....	....		2	1	....		[b] 1 "Colored."
Wexford	33	21	12	....	33	21	12	..	..	..	....	..	....	....	....		....	....	....		....	....	....		

NATIVITY AND PARENT-NATIVITY OF DECEDENTS.

In this Report, the usual table of nativity of decedents, by counties in which the deaths occurred, is given, as is also one new Exhibit of the death-rates in each of the years 1870, 1871, 1872, and 1873 of native and of foreign-born inhabitants. If the reader desires to study the subject more at length, further evidence may be found in the last Report,—Vital Statistics of Mich., 1872, pages 246 to 255,—where was given a Life Table, based upon the probable death-rate in Michigan in 1870, computed for the purpose of learning what number of inhabitants would be maintained by the births of native-born mothers in Michigan alone, whereby it appeared probable that the children born in Michigan in 1872 of native-born mothers alone, would, if continued, maintain a constant population of 1,082,557, which is 173,932 more native-born persons than were actually found at the time of the Census of 1870 in that part of Michigan represented by returns of births in 1872. It appeared, therefore, that according to the best knowledge obtainable concerning the birth-rate and death-rate in this State, the native inhabitants of Michigan are capable not only of maintaining but of increasing their numbers, by the excess of births over deaths. Exhibit 6 is a new one for deaths, although similar Exhibits for births have been made for previous years. By this Exhibit may be seen that the death-rate is greatest among the native-born, and that for each nativity the death-rate is greatest among the males. It should be borne in mind that the deaths of native-born include all still-births

and nearly all the deaths of children, and that the foreign-born inhabitants are mostly of the middle ages, among whom the death-rate is small. These facts will account, at least in part, for the large death-rate among the native-born. It is very important for these studies, however, that the parent-nativity of decedents be stated in the returns of deaths.

This Exhibit also indicates an increase in the death-rate since 1871; but the population in 1870 is used for each year, and the number of inhabitants has undoubtedly increased in each year since 1870, hence the death-rate for the years since 1870 appears larger than if computed to the actual population in each year.

Exhibit 1 is a new one, planned to show the comparative death-rates of native and foreign-born inhabitants in a better manner than is done in Exhibit 6. It seems to demonstrate what has been asserted in these Reports, namely, that the apparently greater death-rate of native than of foreign-born inhabitants is, at least in great part, only apparent, and is due to the fact that the foreign-born inhabitants are largely of the middle ages, at which few deaths occur.

Heretofore there has seemed to be no very ready way of making such comparisons, the accurate way being to compute Life Tables for both nativities; but the compiler has devised a ready method of making such comparisons, and one which seems to be useful. It consists in computing the death-rates at different periods of ages, the ages being so grouped as to make the two populations to be compared as nearly comparable as is practicable, and then finding the *average* per cent. of deaths to inhabitants for the several groups of ages.

When such computations are made by periods of ages, the *average* per cent. of deaths to inhabitants is quite different from the death-rate when computed for all ages in one group, as it is usually computed; because the number of inhabitants at the younger ages is so very great, compared with those at the oldest ages at which the death-rate is always greatest, that the death-rate for all ages collectively is made to appear small.

By the last line in Exhibit 1 it will be seen that the *average* death-rates of native and foreign-born inhabitants, computed for seventeen groups of inhabitants, appear larger than the *collective* death-rates shown in the first line of the Exhibit. The reason of this has just been explained, in the paragraph preceding this.

For the comparison of the death-rates of native and foreign-born inhabitants, the last line in Exhibit 1 should be used. It will then be seen that the difference in the rates is not so great as would appear from the first line in the same Exhibit or as would appear from Exhibit 6. It may be remarked in passing that the rate appears differently in these two last mentioned places. This is because in Exhibit 6 only the inhabitants "represented by deaths in 1873" are counted, while in Exhibit 1 all the inhabitants in the State were necessarily included, thus slightly reducing the apparent death-rate. Comparing the native and foreign-born inhabitants by this new method it seems that the death-rate of the native is not much greater than that of the foreign-born; and it should be remembered that no still-births can be included in the deaths of the foreign-born, while quite a number are included in the deaths of natives; and, including still-births, a very large proportion of all the children that die under one year of age die under one month of age, so that in order properly to compare the native and foreign-born, allowance should be made for such deaths among the natives that are not to any great extent included among the deaths of the foreign-born inhabitants.

EXHIBIT 1.—*By Nativity and Sex, and Periods of Age, the Number of Inhabitants of Michigan, June 1, 1870, the Number of Deaths in 1873, and the Number of Deaths to 100 Living.*

AGES IN YEARS AND PERIODS OF YEARS.	Inhabitants of Michigan, June 1, 1870.[a]						Deaths in Michigan in 1873.						Death-rate: No. of Deaths to 100 Living.					
	Total.		Native.		Foreign.		Total.[b]		Native.[c]		Foreign.		Total.		Native.		Foreign.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Total	617,745	566,314	469,034	447,015	148,711	119,299	7,651	6,590	6,159	5,426	1,305	1,035	1.24	1.16	1.31	1.21	.88	.87
Under 1	16,639	15,990	16,455	15,802	184	188	1,973	1,576	1,943	1,541	17	24	11 86	9.86	11.81	9.75	9.24	12.77
1	16,243	15,760	15,839	15,377	404	383	604	462	578	445	23	13	3.72	2.93	3.65	2.89	5.69	3.39
2	17,488	16,672	16,794	16,017	694	655	290	269	277	249	12	20	1.66	1.61	1.65	1.55	1.73	3.05
3	16,928	16,947	16,030	16,069	898	878	218	184	203	181	13	3	1.29	1.09	1.27	1.13	1.45	.34
4	16,146	15,389	15,019	14,275	1,127	1,114	164	143	159	136	5	6	1.02	.93	1.06	.95	.44	.54
5 to 10	73,893	72,201	65,855	64,498	8,038	7,703	450	388	414	355	33	32	.61	.54	.63	.55	.41	.42
10 to 15	71,649	68,846	62,665	60,275	8,984	8,571	260	270	225	239	32	29	.36	.39	.35	.40	.36	.34
15 to 20	60,211	59,098	49,487	48,815	10,724	10,283	324	324	278	265	39	50	.54	.55	.56	.54	.36	.49
20 to 30	113,016	103,901	76,276	75,617	36,740	28,284	614	725	405	531	186	182	.54	.70	.53	.70	.51	.64
30 to 40	83,192	74,941	50,931	49,340	32,261	25,601	464	543	253	361	191	170	.56	.73	.50	.73	.59	.66
40 to 50	60,747	50,569	36,037	32,254	24,710	18,315	483	389	267	252	199	128	.80	.77	.74	.78	.81	.61
50 to 60	40,508	30,872	25,998	20,921	14,510	9,951	437	322	259	209	163	102	1.08	1.04	1.00	1.00	1.12	1.02
60 to 70	21,321	17,216	14,731	12,032	6,590	5,184	525	395	332	258	180	123	2.46	2.29	2.25	2.14	2.73	2.37
70 to 80	8,021	6,365	5,663	4,577	2,358	1,788	468	342	317	232	136	102	5.83	5.37	5.60	5.07	5.77	5.70
80 to 90	1,576	1,401	1,146	1,042	430	359	209	140	158	97	43	35	13.26	9.99	13.79	9.31	10.00	9.75
90 to 100	144	126	94	91	50	35	31	20	18	14	12	6	21.53	15.87	19.15	15.38	24.00	17.14
100 and Over	16	15	9	10	7	5	3	1	2	1	1	.....	18.75	6.67	22.22	10.00	14.29	.....
Unknown Ages	7	5	5	3	2	2	134	97	71	60	20	10	.....	.....	.....	.....	.....	.....
Average of Seventeen Periods of Age													5.05	3.61	5.10	3.70	4.68	3.48

[a] From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870. [b] Excluding 17 unknown sex, and including 187 males and 129 females of unknown nativity. [c] Excluding 17 unknown sex.

EXHIBIT 6.—*Nativity of Inhabitants (in 1870) and of Decedents in Michigan during the Years 1870, 1871, 1872, and 1873; and the Relation of the Native and Foreign-born Decedents in each Year to the Native and Foreign-born Inhabitants, June 1, 1870.*

NATIVITY OF DECEDENTS AND OF INHABITANTS.	NATIVE AND FOREIGN-BORN POPULATION, JUNE 1, 1870, REPRESENTED BY DEATHS IN THE GIVEN YEARS.			DECEDENTS IN 1870, 1871, 1872, AND 1873.						
				Year.	NUMBER.			PER CT. OF DECEDENTS TO POPULATION OF SAME SEX AND NATIVITY.		
	Total.	Males.	Females.		Total.[a]	Males.	Females.	Total.	Males.	Females.
All Nativities....[b]	1,153,368	600,806	552,562		10,766	5,589	5,140	.933	.930	.936
Native	902,169	461,963	440,206	1870	8,804	4,525	4,253	.975	.979	.966
Foreign	251,199	138,843	112,356		1,609	893	716	.640	.643	.637
All Nativities....[b]	1,143,453	595,556	547,897		9,728	5,190	4,503	.851	.871	.822
Native	892,197	456,652	435,545	1871	7,759	4,074	3,655	.870	.892	.839
Foreign	251,256	138,904	112,352		1,608	927	681	.640	.667	.606
All Nativities....[b]	1,158,055	603,914	554,141		13,371	7,182	6,162	1.155	1.189	1.112
Native	900,889	461,307	439,582	1872	10,812	5,647	5,138	1.200	1.224	1.169
Foreign	257,166	142,607	114,559		2,146	1,303	843	.834	.914	.736
All Nativities....[b]	1,175,731	613,327	562,404		14,258	7,651	6,590	1.213	1.247	1.172
Native	912,747	467,469	445,278	1873	11,602	6,159	5,426	1.271	1.318	1.219
Foreign	262,984	145,858	117,126		2,340	1,305	1,035	.890	.895	.884

[a] Includes decedents of unknown sex. [b] Includes decedents of unknown nativity.

TABLE XIII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of All Returned as having Died in Michigan during the Year ending December 31, 1873.*

STATE AND COUNTIES.	ALL NATIVITIES.				NATIVE.				FOREIGN.			UNKNOWN.		
	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Total.	Males.	Females.
STATE	14,258	7,651	6,590	17	11,602	6,159	5,426	17	2,340	1,305	1,035	316	187	129
Alcona	17	11	6	....	12	7	5	....	3	2	1	2	2	.....
Allegan	453	215	238	....	383	177	206	....	51	28	23	19	10	9
Alpena	44	23	21	....	35	17	18	....	9	6	3	.....	.....	.....
Antrim	26	11	15	....	18	8	10	....	8	3	5	.....	.....	.....
Barry	250	121	129	....	232	112	120	....	17	9	8	1	.....	1
Bay	279	150	127	2	217	117	98	2	56	29	27	6	4	2
Benzie	26	18	8	....	20	13	7	....	5	4	1	1	1	.....
Berrien	461	245	216	....	396	209	187	....	53	28	25	12	8	4
Branch	219	122	97	....	206	112	94	....	10	7	3	3	3	.....
Calhoun	388	190	188	1	345	177	167	1	40	22	18	3	.....	3
Cass	175	95	80	....	152	81	71	....	16	10	6	7	4	3
Charlevoix	18	8	10	....	16	7	9	....	2	1	1	.....	.....	.....
Cheboygan	22	12	10	....	16	9	7	....	5	2	3	1	1	.....
Chippewa	21	14	7	....	18	12	6	....	1	1	.....	2	1	1
Clare	21	14	7	....	18	12	6	....	3	2	1	.....	.....	.....
Clinton	194	89	105	....	177	78	99	....	15	9	6	2	2	.....
Delta[a]	.....	.....	.....	....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....
Eaton	285	132	131	2	265	140	123	2	13	8	5	7	4	3
Emmet	35	15	20	....	33	14	19	....	2	1	1	.....	.....	.....
Genesee	343	185	158	....	300	168	132	....	41	17	24	2	.....	2
Gr. Traverse	41	23	18	....	32	16	16	....	9	7	2	.....	.....	.....
Gratiot	143	77	66	....	132	71	61	....	9	5	4	2	1	1
Hillsdale	317	159	156	2	293	146	145	2	14	6	8	10	7	3
Houghton	214	125	89	....	158	87	71	....	45	30	15	11	8	3
Huron	113	53	60	....	76	39	37	....	36	14	22	1	.....	1
Ingham	242	131	110	1	214	116	97	1	24	13	11	4	2	2
Ionia	258	141	117	....	229	128	101	....	24	11	13	5	2	3
Iosco	68	39	26	3	48	25	20	3	16	10	6	4	4	.....
Isabella	69	39	30	....	61	34	27	....	6	3	3	2	2	.....
Jackson	333	183	150	....	280	147	133	....	44	31	13	9	5	4
Kalamazoo	275	143	132	....	235	121	114	....	34	19	15	6	3	3
Kalkaska	17	11	6	....	14	8	6	....	2	2	.....	1	1	.....
Kent	700	387	313	....	584	327	257	....	103	54	49	13	6	7

[a] County Clerk says no returns from Supervisors.

TABLE XIII.—Continued.

COUNTIES.	All Nativities.				Native.				Foreign.			Unknown.		
	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Total.	Males.	Females.
Keweenaw	63	41	22	....	41	27	14	....	22	14	8	.....	.....	.....
Lake	19	11	8	....	16	10	6	....	2	1	1	1	.....	1
Lapeer	298	156	140	2	230	124	104	2	66	31	35	2	1	1
Leelanaw	46	27	19	....	37	23	14	....	9	4	5	.....	.....	.....
Lenawee	406	241	165	....	358	211	147	....	39	23	16	9	7	2
Livingston	168	90	78	....	132	66	66	....	31	22	9	5	2	3
Mackinac	21	13	8	....	15	8	7	....	6	5	1	.....	.....	.....
Macomb	278	142	136	....	226	118	108	....	50	22	28	2	2	.....
Manistee	101	66	35	....	71	46	25	....	28	19	9	2	1	1
Manitou	7	4	3	....	2	.....	2	....	5	4	1	.....	.....	.....
Marquette	253	174	81	....	157	92	65	....	96	80	16	2	2	.....
Mason	57	28	29	....	49	25	24	....	8	3	5	.....	.....	.....
Mecosta	92	54	38	....	83	48	35	....	8	5	3	1	1	.....
Menominee	45	20	25	....	36	16	20	....	5	2	3	4	2	2
Midland	66	39	27	....	59	35	24	....	5	2	3	2	2	.....
Missaukee	7	2	5	....	7	2	5	....	.....	.....	.....	.....	.....	.....
Monroe	244	135	109	....	205	108	97	....	37	26	11	2	1	1
Montcalm	238	114	124	....	215	102	113	....	18	10	8	5	2	3
Muskegon	229	128	101	....	177	101	76	....	40	22	18	12	5	7
Newaygo	103	51	51	1	85	44	40	1	12	3	9	6	4	2
Oakland	304	147	157	....	256	122	134	....	41	20	21	7	5	2
Oceana	108	49	59	....	92	42	50	....	12	4	8	4	3	1
Ontonagon	23	15	8	....	11	6	5	....	12	9	3	.....	.....	.....
Osceola	68	43	25	....	55	35	20	....	12	7	5	1	1	.....
Ottawa	376	197	179	....	269	153	136	....	84	41	43	3	3	.....
Presque Isle	2	.....	2	....	.....	.....	.....	....	2	.....	2	.....	.....	.....
Saginaw	664	349	315	....	502	258	244	....	151	83	68	11	8	3
Sanilac	176	82	94	....	109	50	59	....	65	31	34	2	1	1
Schoolcraft	17	7	10	....	12	3	9	....	2	2	1	2	2	.....
Shiawassee	191	93	98	....	167	81	86	....	24	12	12	.....	.....	.....
St. Clair	494	268	226	....	364	191	173	....	123	73	50	7	4	3
St. Joseph	201	107	94	....	182	98	84	....	14	8	6	5	1	4
Tuscola	211	114	97	....	183	98	85	....	26	14	12	2	2	.....
Van Buren	357	187	170	....	323	172	151	....	31	14	17	3	1	2
Washtenaw	359	183	176	....	273	144	129	....	76	36	40	10	2	
Wayne	1,864	1,043	818	3	1,339	747	589	3	458	256	202	67		
Wexford	33	21	12	....	29	18	11	....	3	3	.....			

TABLE XIV.—*Number of Deaths in Michigan Returned as having Occurred from All Causes, and from each Class of Causes, and Per Cent. of Deaths from each Class of Causes to Deaths from All Causes, for each of the Years 1869, 1870, 1871, 1872, and 1873.*

CAUSES OF DEATH,— CLASSES.	MICHIGAN FOR THE YEAR 1869.		MICHIGAN FOR THE YEAR 1870.		MICHIGAN FOR THE YEAR 1871.		MICHIGAN FOR THE YEAR 1872.		MICHIGAN FOR THE YEAR 1873.	
	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.
All Causes	9,145	100.00	10,766	100.00	9,728	100.00	13,371	100.00	14,258	100.00
I.—Zymotic Diseases	2,513	27.47	3,429	31.85	2,642	27.16	4,399	32.90	4,027	28.24
II.—Constitutional Diseases	1,734	18.96	2,072	19.24	1,852	19.04	2,146	16.05	2,207	15.48
III.—Local Diseases	2,334	25.52	2,699	25.06	2,619	26.92	3,762	28.14	4,565	32.02
IV.—Developmental Diseases	814	8.90	840	7.80	1,002	10.30	1,063	7.94	1,162	8.15
V.—Violent Deaths	468	5.11	495	4.59	539	5.54	541	4.04	685	4.80
Unknown and Unclassified	1,282	14.01	1,231	11.43	1,074	11.04	1,460	10.93	1,612	11.31

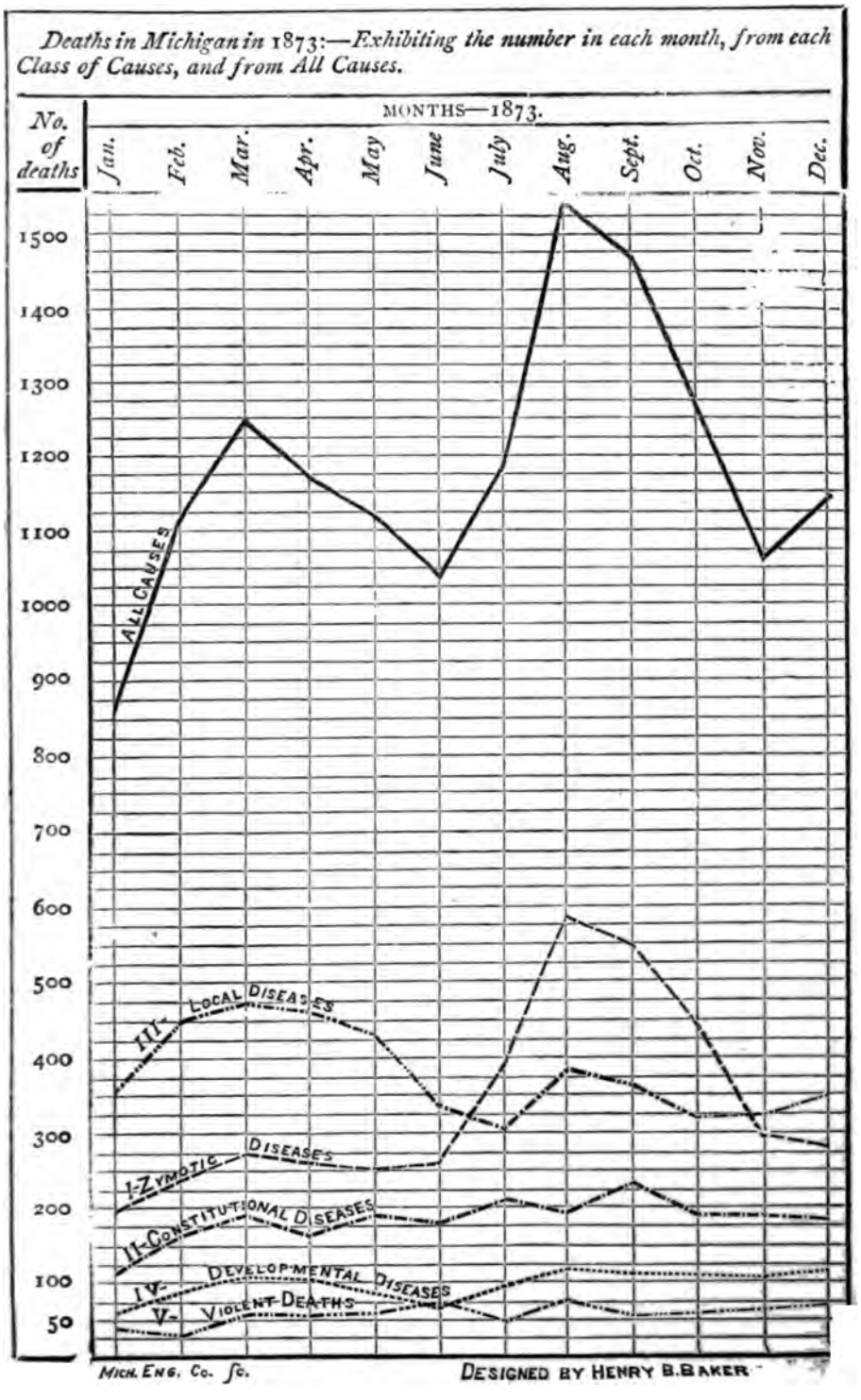
By Table XIV. it will be seen that the per cent. of deaths from Zymotic Diseases—Class I.—increases with each alternate year. There seems to be no noticeable uniformity in the other Classes, with the exception of Class V.—Violent Deaths—which shows some uniformity in the per cent. of deaths throughout the several years.

EXHIBIT 7.—*By Months the Number of Deaths in Michigan Returned as having Occurred from All Causes, and from each Class of Causes, during the Year 1873.*

CAUSES OF DEATH,— CLASSES.	Year, 1873.	Months, 1873.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All Causes	14,258	859	1104	1248	1174	1121	1040	1176	1535	1471	1258	1067	1136	69
I.—Zymotic Diseases	4,027	196	244	273	259	253	258	389	580	545	439	290	282	19
II.—Constitutional Diseases	2,207	116	170	188	163	188	181	206	197	228	188	189	179	14
III.—Local Diseases	4,565	359	451	473	464	428	333	312	380	362	324	325	346	8
IV.—Developmental Diseases	1,162	62	88	104	104	88	72	93	117	111	103	102	110	8
V.—Violent Deaths	685	39	33	58	54	55	74	49	78	57	56	59	68	5
Unknown and Unclassified	1,612	87	118	152	130	109	122	127	183	168	148	102	151	15

Exhibit 7 shows, by months, the number of deaths from All Causes, and from each Class of causes of death, as returned, for the year 1873. This Exhibit is also graphically represented in Diagram No. 4, wherein it may be seen that there is some similarity between Classes II., III., IV., and V., throughout the year. Class I. corresponds somewhat with All Causes, and the rise in August of the line representing All Causes is due mainly to diseases such as cholera

DIAGRAM No. 4.


Deaths in Michigan in 1873:—Exhibiting the number in each month, from each Class of Causes, and from All Causes.
No. of deaths
MONTHS—1873.
Jan.
Feb.
Mar.
Apr.
May
June
July
Aug.
Sept.
Oct.
Nov.
Dec.
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
50
ALL CAUSES
III- LOCAL DISEASES
I-ZYMOTIC DISEASES
II-CONSTITUTIONAL DISEASES
IV- DEVELOPMENTAL DISEASES
V- VIOLENT DEATHS
MICH. ENG. Co. Sc.
DESIGNED BY HENRY B. BAKER

infantum, cholera morbus, diarrhœa, and dysentery, classed as zymotic. The rise in March of the line representing All Causes is due principally to Class III.—Local Diseases; and the special diseases, included in this class, which raise this line of All Causes in the Spring months of 1873, are cerebro-spinal meningitis and other diseases of the brain and spinal column, pneumonia, and "lung disease." The diseases can be studied by months in Table XVII., following; and some important meteorological conditions can be studied by months in Exhibit D, page 117. It will be seen by the comments on that Exhibit—pages 117-118—that it seems probable that the increase of deaths in the Spring months of 1873 were caused by exposure to an unusually low temperature. In Diagram No. 4 the deaths are represented as returned. For Diagram No. 3 the deaths have been corrected for omissions in the enumeration, in order to exhibit more nearly the correct proportion by months.

The five groups of diseases mentioned in Exhibit 8 caused more than half the deaths in Michigan in each of the years 1869–1873, except in 1871, and the proportion of deaths from these diseases seems to have been increasing. The group of Lung Diseases heads the list for each year, that of Bowel Diseases immediately follows, and the group of Brain Diseases is next, except for 1873, where these last two groups exchange places in the order. The proportion of deaths from Heart and Throat Diseases is about the same throughout the several years.

EXHIBIT 8.—*Order of Succession of Five Groups of Causes of Death in Michigan for each of the Years 1869 to 1873, inclusive.*

Order.	1869.			1870.			1871.			1872.			1873.		
	Diseases of	Per Ct. of All Causes.	Number.	Diseases of	Per Ct. of All Causes.	Number.	Diseases of	Per Ct. of All Causes.	Number.	Diseases of	Per Ct. of All Causes.	Number.	Diseases of	Per Ct. of All Causes.	Number.
....	All Causes.....	100.00	9,145	All Causes....	100.00	10,766	All Causes...	100.00	9,728	All Causes...	100.00	13,371	All Causes...	100.00	14,258
1	Lungs.....	20.35	1,861	Lungs.....	19.45	2,094	Lungs.....	20.74	2,018	Lungs.....	18.26	2,441	Lungs.....	17.61	2,511
2	Bowels.....	14.45	1,321	Bowels.....	17.21	1,853	Bowels	11.85	1,153	Bowels.....	17.04	2,278	Brain.....	16.38	2,336
3	Brain.....	10.81	995	Brain.....	10.57	1,138	Brain.....	11.25	1,094	Brain.....	13.23	1,779	Bowels.....	14.89	2,121
4	Heart.....	3.02	276	Heart.....	2.94	316	Throat.....	3.06	298	Throat.....	2.92	391	Throat.....	3.04	434
5	Throat.....	2.41	220	Throat.....	2.53	272	Heart.....	3.02	294	Heart.....	2.79	373	Heart.....	2.82	402
-5	Five Groups....	51.04	4,673	Five Groups...	52.70	5,673	Five Groups..	49.92	4,857	Five Groups..	54.24	7,262	Five Groups..	54.74	7,804

EXHIBIT J.—*Eleven Geographical Divisions of the State, formed for the Purpose of Facilitating the Study of Causes of Death, with a List of Counties included in each Division.*

Upper Peninsular.	North-western.	Northern.	North-eastern.	Western.	Northern-Central.	Bay and Eastern.	Central.	South-western.	Southern-Central.	South-eastern.
Chippewa.[a]	Benzie.[d]	Antrim.[h]	Alcona.	Kent.	Clare.[q]	Bay.	Barry.	Allegan.	Branch.	Macomb.
Delta.*	Gr. Traverse.	Charlevoix.[i]	Alpena.	Lake.	Isabella.[r]	Huron.	Clinton.	Berrien.	Calhoun.	Monroe.
Houghton.	Leelanaw.	Cheboygan.	Iosco.[k]	Mason.[m]	Mecosta.	Lapeer.	Eaton.	Cass.	Hillsdale.	Oakland.
Keweenaw.[b]	Manistee.[e]	Emmet.	Presq. Isle.[l]	Muskegon.[n]	Midland.[s]	Saginaw.	Genesee.	Van Buren.	Jackson.	Wayne.
Mackinac.	Manitou.[f]	Kalkaska.[j]		Newaygo.[o]		Sanilac.	Gratiot.		Kalamazoo.	
Marquette.	Missaukee.			Oceana.		St. Clair.	Ingham.		Lenawee.	
Menominee.	Wexford.[g]			Osceola.[p]		Tuscola.	Ionia.		St. Joseph.	
Ontonagon.[c]				Ottawa.			Livingston.		Washtenaw.	
Schoolcraft.							Montcalm.[t]			
							Shiawassee.			

No returns of deaths from the following townships:
[a] Sugar Island. [b] Isle Royal. [c] Algonquin. [d] Benzonia, Colfax, Joyfield, and Weldon. [e] Filer and Springdale. [f] Chandler and South Manitou. [g] Cedar Creek, Cherry Grove, Henderson, and Wexford. [h] Central Lake, Otsego Lake, and Torch Lake. [i] Boyne Valley, Evangeline, and Eveline. [j] Boardman, Orange, and Wilson. [k] Edwards, Grant, Thompson, and Ogemaw. [l] Presque Isle. [m] Branch and Hamlin. [n] Eggleston and Norton. [o] Croton. [p] Hartwick, Highland, and Lincoln. [q] Winterfield. [r] Broomfield and Fremont. [s] Ingersoll, Mt. Hayley, Porter, and Roscommon. [t] Belvidere, Home, and Richland.
* County Clerk says no returns of deaths from the Supervisors.

Table XV. shows, for the State and by geographical divisions, the death-rate, and the proportion of deaths from each class of causes of death, as shown by the returns. The largest proportion for the State is from Local Diseases, and the smallest from Violent Deaths. The death-rate is shown to be greatest in the Northern Central division of the State. This division also shows the greatest proportion of deaths from Zymotic Diseases. It may be that, as regards the total death-rate, the showing would be quite different if we knew the number of inhabitants in 1873; the Northern-Central division may have increased since 1870 in greater proportion than have the other divisions.

By dividing the State through, from west to east, into three portions, it may be seen that the average proportion of deaths from Zymotic Diseases was greatest in the central portion; the average proportion from Constitutional, Local, and Developmental Diseases was greatest in the southern portion; the average proportion from Violent Deaths and from the unknown and unclassified causes was greatest in the northern portion.

More definite information on the part of the persons making the returns from the northern portions of the State might change this order by decreasing the unknown and unclassified in those portions, and increasing the number in some definite class.

The death-rate, shown by the per cent. of deaths to population, is not very reliable, because the population in 1870 is used with the deaths in 1873; and the deaths have not been corrected for omissions in the enumeration.

TABLE XV.—*Exhibiting, for the State and each of Eleven Geographical Divisions of the State, the Population, June 1, 1870; the Number of Deaths Returned as having Occurred, and the Per Cent. of Deaths for each Division to Total Deaths for the State during the Year 1873; the Per Cent. of Deaths in 1873 to Population, June 1, 1870; also the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.	Population, June 1, 1870, represented by Returns of Deaths in 1873.	Deaths in 1873.		Per Ct. of All Deaths in 1873 to Population in 1870.	Per Cent. of Deaths from each Class of Causes to Deaths from All Causes, by Geographical Divisions.					
		Number.	Per Cent. of Total.		Class I. Zymotic Diseases.	Class II. Constitutional Diseases.	Cl'ss III. Local Diseases.	Class IV. Developmental Diseases.	Class V. Violent Deaths.	Unk'n and Unclassified.
STATE	1,175,731	14,258	100.00	1.213	28.24	15.48	32.02	8.15	4.80	11.31
Upper-Peninsular	41,019	659	4.62	1.607	31.56	9.56	20.94	7.59	9.56	20.79
Northwestern	17,559	261	1.83	1.486	22.61	11.49	27.97	8.05	8.81	21.07
Northern	6,888	118	.83	1.713	20.34	11.86	27.12	10.17	8.47	22.03
Northeastern	6,945	131	.92	1.886	38.93	5.34	18.32	6.11	6.87	24.42
Western	109,975	1,660	11.64	.151	32.41	14.94	27.89	7.47	4.46	12.83
Northern-Central	12,463	248	1.74	1.990	40.73	12.90	25.81	2.02	5.65	12.90
Central	222,343	2,312	16.22	1.031	28.98	15.57	34.73	7.01	3.63	10.08
Bay and Eastern	150,427	2,235	15.67	1.486	30.83	13.42	29.08	8.10	5.10	13.47
Southwestern	117,140	1,446	10.14	1.234	21.85	15.28	43.43	5.53	4.15	9.75
Southern-Central	275,904	2,498	17.52	.905	24.70	18.25	36.99	8.49	4.16	7.41
Southeastern	215,068	2,690	18.87	1.251	28.03	17.70	28.47	11.41	4.83	9.55

TABLE XVI.—CAUSES OF DEATH.—Nosological Arrangement.

Exhibiting the Number of Deaths Returned as having Occurred in Michigan, and in each County of the State, during the Year 1873 from Specified Causes, Statistically Classified (Still-births Included).

CAUSES OF DEATH,—1873.	State.	Counties.—1873.																				
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
All Causes	14,258	17	453	44	26	250	279	26	461	219	388	175	18	22	21	21	194	[a]	285	35	343	41	143
Specified Causes	12,718	11	395	36	26	233	238	24	417	206	363	160	17	18	17	17	175	....	265	19	287	35	129
Causes not Specified	1,540	6	58	8	....	17	41	2	44	13	25	15	1	4	4	4	19	....	20	16	56	6	14
Classes.																							
I.—Zymotic Diseases	4,027	2	94	22	4	65	88	11	120	58	104	41	5	8	4	8	53	....	92	2	86	8	57
II.—Constitutional Diseases	2,207	....	54	3	3	39	39	2	67	41	76	36	4	....	2	1	38	....	46	5	54	4	9
III.—Local Diseases	4,565	7	197	4	9	98	71	9	191	81	127	65	6	5	8	7	66	....	100	8	105	16	45
IV.—Developmental Diseases	1,162	....	31	4	6	18	26	1	22	18	35	11	1	1	....	....	10	....	21	3	28	4	9
V.—Violent Deaths	685	2	19	2	4	11	12	1	15	7	15	7	....	4	3	1	8	....	6	1	10	3	8
Unclassified	72	....	....	1	....	2	2	....	2	1	6	....	1	....	....	....	....	....	....	....	4	....	1
Orders.																							
I.—1. Miasmatic Diseases	3,978	1	94	22	3	63	88	11	120	58	103	41	4	7	4	8	53	....	92	2	86	8	55
2. Enthetic Diseases	6	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
3. Dietic Diseases	33	1	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	2
4. Parasitic Diseases	10	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....

II.—1. Diathetic Diseases	671	..	16	..	....	15	13	1	16	10	22	11	1	..	..	..	13	....	16	..	15	2	4
2. Tubercular Diseases	1,536	-	38	3	3	24	26	1	51	31	54	25	3	-	-	2	1	25	-	30	5	39	2	5
III.—1. Diseases of Nervous System	2,241	4	128	2	2	51	34	3	105	40	64	39	4	2	4	4	38	-	46	6	46	3	21
2. Diseases of Organs of Circulation	407	-	9	-	....	7	2	1	4	9	8	4	1	-	-	-	2	6	-	12	-	14	-	3
3. Diseases of Respiratory Organs	1,052	-	36	1	5	22	17	4	53	14	32	13	-	-	1	4	1	13	-	25	1	26	5	16
4. Diseases of Digestive Organs	645	2	18	1	2	13	15	-	21	12	13	7	1	1	-	-	-	9	-	10	-	14	5	4
5. Diseases of Urinary Organs	138	1	4	-	-	4	3	1	3	3	6	2	-	-	-	-	-	-	-	4	1	2	3	1
6. Diseases of Generative Organs	20	-	1	-	....	1	-	-	....	2	1	-	-	-	1	-	-	-	....	....	-	-	-	....
7. Diseases of Organs of Locomotion	3	-	-	-	....	-	-	-	....	-	-	-	-	-	-	-	-	-	....	....	-	-	-	....
8. Diseases of Integumentary System	59	-	1	-	....	-	-	-	5	1	3	-	-	-	-	-	-	-	....	3	-	3	-	....
IV.—1. Developmental Diseases of Children	459	-	4	1	....	8	13	-	8	2	12	8	1	-	-	-	-	5	....	9	1	7	1	6
2. Developmental Diseases of Women	275	-	10	3	2	2	9	-	10	5	8	2	-	-	1	-	-	1	....	3	1	9	1	1
3. Developmental Diseases of Old People	428	-	17	-	4	8	4	1	4	11	15	1	-	-	-	-	-	4	....	9	1	12	2	2
4. Diseases of Nutrition	.....	-	-	-	....	-	-	-	....	-	-	-	-	-	-	-	-	-	....	....	-	-	-	....
V.—1. Accident or Negligence	405	2	13	-	2	6	8	1	11	4	5	5	-	-	1	2	-	3	....	3	1	3	3	4
2. Battle	.....	-	-	-	....	-	-	-	....	-	-	-	-	-	-	-	-	-	....	....	-	-	-	....
3. Homicide	17	-	2	-	....	-	1	-	....	1	-	-	-	-	-	-	-	-	....	....	-	-	-	....
4. Suicide	39	-	-	-	....	2	-	-	....	....	2	-	-	-	-	-	-	1	....	....	-	-	-	1
5. Execution	.....	-	-	-	....	-	-	-	....	-	-	-	-	-	-	-	-	-	....	....	-	-	-	....
6. Violent Deaths	224	-	4	2	2	3	3	-	4	2	8	2	-	-	3	1	1	4	....	3	-	7	-	3
CLASS I.—ZYMOTIC	4,027	2	94	22	4	65	88	11	120	58	104	41	5	8	4	8	53	....	92	2	86	8	57
I.—ORDER 1. Miasmatic	3,078	1	94	22	3	63	88	11	120	58	103	41	4	7	4	8	53	....	92	2	86	8	55
1. Small-pox	93	-	1	6	....	-	-	....	4	2	-	-	-	-	-	-	-	-	....	....	-	4	-	....
2. Measles	251	-	3	1	....	-	16	....	4	3	5	2	-	-	-	-	-	1	....	7	-	6	-	6
3. Scarlatina	580	-	3	-	....	23	2	....	11	17	16	7	-	-	-	-	-	5	....	11	-	6	2	8

a County Clerk says no returns from Supervisors.

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	STATE.	COUNTIES.—1873.																						
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
4. Diphtheria	217	....	2	1	....	5	7	....	16	3	3	1	1	....	....	....	2	....	....	....	16	....	2
5. Quinsy	10	....	....	....	....	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....
6. Croup	172	....	....	....	....	3	9	....	11	2	2	2	....	....	....	....	1	....	2	....	5	....	....
7. Whooping-cough	206	....	4	....	....	....	2	....	5	3	2	....	....	....	....	2	1	....	4	....	4	....	5
8. Continued Fever	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8. Typhoid Fever	677	....	22	....	....	15	2	1	19	11	19	8	....	2	....	....	18	....	24	....	13	....	16
8. Typhus Fever	22	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
8. Typho-malarial Fever	7	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9. Erysipelas	163	....	13	....	....	3	3	1	4	3	11	6	....	....	....	1	1	....	4	....	3	2	1
10. Puerperal Fever	46	....	....	....	....	1	....	....	3	1	2	3	....	....	....	....	2	....	1	....	1	....	1
11. Carbuncle	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12. Influenza	13	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	2	....
13. Dysentery	319	1	6	11	....	2	9	6	14	2	7	5	1	1	....	....	6	....	23	....	8	....	4
14. Diarrhea	383	....	3	....	....	1	16	....	7	1	....	....	1	....	....	....	5	....	4	2	2	1	....
15. Cholera Infantum	306	....	6	....	....	1	6	2	7	3	19	3	....	4	4	3	9	....	5	....	8	1	3
16. Cholera Morbus	37	....	....	....	....	1	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....
16. Cholera	9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17. Ague	196	....	15	....	2	4	7	....	5	4	5	1	....	....	....	1	1	....	6	....	4	....	3
18. Remittent Fever	195	....	16	3	1	1	5	....	7	....	4	3	1	....	....	....	....	....	1	....	4	....	5
19. Rheumatism	70	....	....	....	....	2	2	....	2	1	6	....	....	....	....	1	1	....	....	....	2	....	....

I.—ORDER 2. Enthetic	6											1												
1. Syphilis	6											1												
2. Stricture of Urethra																								
2. Stricture																								
3. Hydrophobia																								
4. Glanders																								
I.—ORDER 3. Dietic	33	1				1							1										2	
1. Privation																								
2. Purpura																								
2. Rachitis	1																						1	
2. Scurvy	1																							
3. Delirium Tremens (Alcoholism)	16	1																						
4. Intemperance	15					1							1										1	
I.—ORDER 4. Parasitic	10				1	1				1														
1. Thrush	7				1	1				1														
2. Worms	3																							
3. Diseases of Scalp																								
CLASS II.—CONSTITUTIONAL	2,207		54	3	3	39	39	2	67	41	76	36	4		2	38		46	5	54	4	9		
II.—ORDER 1. Diathetic	671		16			15	13	1	16	10	22	11	1			13		16		15	2	4		
1. Gout																								
2. Anæmia	188		2			8	6		4		2	3						7		3				
2. Dropsy	247		10			3	3		5	5	8	3	1			6		4		3	2	3		
3. Cancer	173		3			3	2	1	6	4	12	3				5		5		9		1		
4. Noma (Canker)	49		1			1	2		1	1		2				2								
5. Mortification	14																							

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	STATE.	COUNTIES.—1873.																						
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.[1]	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
II.—ORDER 2. Tubercular	1,536		38	3	3	24	26	1	51	31	54	25	3	---	2	1	25		30	5	39	2	5
1. Scrofula	46		1	---	---	1	--	---	1	2	2	1	---	---	---	-	1		1	1	1	---	---
2. Consumption of Bowels	15		---	---	---	---	--	---	1	1	1	--	---	---	---	-	1		2	-	---	---	---
3. Phthisis (Consumption of Lungs)	1,460		37	3	3	22	26	1	49	26	51	24	3	---	2	1	23		27	4	38	2	4
4. Hydrocephalus	5		---	---	---	1	--	---	---	---	---	--	---	---	---	-	---		---	-	---	---	1
5. Marasmus	10		---	---	---	---	--	---	---	2	---	--	---	---	---	-	---		---	-	---	---	---
CLASS III.—LOCAL DISEASES	4,565	7	197	4	9	98	71	9	191	81	127	65	6	5	8	7	66		100	8	105	16	45
III.—ORDER 1. Nervous System	2,241	4	128	2	2	51	34	3	105	40	64	39	4	2	4	4	38		46	6	46	3	21
1. Cephalitis	334		13	---	---	3	7	---	17	2	4	8	3		---	2	2		2	-	4	---	5
2. Apoplexy	81		1	1	---	1	--	---	---	---	5	--	---	---	---	-	3		2	-	2	---	---
3. Paralysis	173		4	---	---	4	--	---	7	2	7	3	---	---	1	-	5		7	-	5	---	---
4. Insanity	19		---	---	---	---	--	---	---	---	---	--	---	---	---	-	---		---	-	---	---	---
5. Chorea	5		---	---	---	---	--	---	---	---	---	--	---	---	---	-	---		---	-	---	---	---
6. Epilepsy	33		---	---	---	---	--	---	---	1	1	--	---	---	1	-	---		---	-	---	---	1
7. Tetanus	6		---	---	1	---	--	---	---	---	---	--	---	---	---	-	---		---	-	---	---	---
8. Convulsions	300		7	---	---	2	7	---	11	---	5	3	1	---	1	-	8		6	-	2	1	4
9. Brain Diseases	207		4	1	---	6	8	1	10	4	9	2	---		---	-	2		5	3	6	---	5
9. Dropsy of Brain	76		---	---	---	2	2	1	1	1	1	2	---	---	1	-	---	---	1	-	1	---	---
10. Spinal Fever	428		94	---	---	8	1	---	43	20	19	12	---	---	---	2	4	---	11	-	7	2	4

11. Spotted Fever	66		4			3			4	1	3	2					3		3		1		2		
12. Meningitis	7																								
13. Meningitis, Cerebro-spinal	145						6		12	2		5					2		3	1	5				
14. Meningitis, Spinal	166					17		1		4	6	2					4		3		2				
15. Neuralgia	14										1														
16. Spine Disease	170		1			5	3			3	3						5		3	2	1				
17. Spine, Inflammation of	2				1																				
18. Frightened																									
III.—Order 2. Organs of Circulation	407		9				2	1	4	9	8	4	1			2	6		12		14		3		
1. Pericarditis	69		3			4			2	2						1			4		2		1		
2. Aneurism	9							1													1		1		
3. Heart Disease	329		6			3	2		2	7	8	3	1			1	6		8		11		1		
4. Emboli																									
III.—Order 3. Respiratory Organs	1,052		36	1	5	22	17	4	53	14	32	13		1	4	1	13		25	1	26	5	16		
1. Epistaxis	1																								
2. Laryngitis	2																								
3. Bronchitis	25																								
4. Pleurisy	36							1			2								1			2			
5. Pneumonia	218		31	1	5	18	16	3	37	13	22	10		1		1	8		23		23	3	12		
6. Asthma	21																1			1	1				
7. Lung Diseases	179		5			3	1		15	1	8	3					4		1		2		4		
III.—Order 4. Digestive Organs	645	2	18	1	2	13	15		21	12	13	7	1	1			9		10		14	5	4		
1. Gastritis	41		2							2							1		1		1				
2. Enteritis	286	2	8	1	1	7	9		9	3	5	2					6		4		7	3	3		
3. Peritonitis	11				1					1															
4. Ascites	6										1														

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	STATE.	COUNTIES.—1873.																						
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
5. Ulceration of Intestines	3	-	----	----	----	----	-	----	----	----	-	----	----	----	----	----	----	----	----	-	1	1	----
6. Hernia	22	-	----	----	----	----	-	----	----	3	-	----	----	----	----	----	----	----	1	-	----	-	----
7. Obstruction of Bowels	6	-	----	----	----	----	-	----	----	1	-	----	----	----	----	----	----	----	----	-	1	-	----
8. Intussusception	2	-	----	----	----	----	-	----	----	----	-	----	----	----	----	----	----	----	----	-	----	-	----
9. Stricture of Intestines	1	-	----	----	----	----	-	----	----	----	-	----	----	----	----	----	----	----	----	-	----	-	----
10. Fistula	----	-	----	----	----	----	-	----	----	----	-	----	----	----	----	----	----	----	----	-	----	-	----
11. Stomach Diseases	74	-	----	----	----	----	2	----	4	1	-	1	----	1	----	----	----	----	1	-	1	-	----
12. Pancreas Diseases	----	-	----	----	----	----	-	----	----	----	-	----	----	----	----	----	----	----	----	-	----	-	----
13. Hepatitis	10	-	----	----	----	----	1	----	----	----	-	----	----	----	----	----	----	----	----	-	----	-	----
14. Jaundice	17	-	----	----	----	----	1	----	----	----	2	----	----	----	----	----	1	----	----	-	----	-	----
15. Liver Diseases	101	-	5	----	----	4	2	----	4	1	3	1	1	----	----	----	1	----	2	-	2	1	----
16. Spleen Diseases	8	-	----	----	----	----	-	----	----	----	-	----	----	----	----	----	----	----	----	-	----	-	----
17. Bowel Diseases, etc.	57	-	3	----	----	----	-	----	4	----	2	1	----	----	----	----	----	----	1	-	1	-	1
18. Mouth Disease	----	-	----	----	----	----	-	----	----	----	-	----	----	----	----	----	----	----	----	-	----	-	----
III.—ORDER 5. Urinary Organs	138	1	4	----	----	4	3	1	3	3	6	2	----	----	----	----	----	----	4	1	2	3	1
1. Nephritis	15	-	1	----	----	1	-	----	1	----	-	----	----	----	----	----	----	----	----	-	----	-	----
2. Ischuria	----	-	----	----	----	----	-	----	----	----	-	----	----	----	----	----	----	----	----	-	----	-	----
3. Bright's Disease of Kidneys	15	-	----	----	----	1	-	----	----	----	1	----	----	----	----	----	----	----	1	-	----	-	----
4. Diabetes	39	-	1	----	----	2	1	----	2	1	1	1	----	----	----	----	----	----	----	-	----	1	----

6. Calculus (Gravel, etc.)	20	1	..	....	....	..	..	....	..	1	..	1	....	....	....	....	....	....	1	....	1	1	
6. Cystitis	9	..	1	....	....	..	..	....	..	1	1	..	....	....	....	....	....	1	....	1	..	....	
7. Kidney Diseases	41	..	1	....	....	..	2	1	..	..	3	..	....	....	....	....	....	2	....	1	1	....	
III.—ORDER 6. Generative Organs	20	..	1	....	....	1	..	....	..	2	1	..	1	....	....	....	....	....	....	....	..	....	
1. Ovarian Dropsy	....	..	..	....	....	..	..	....	..	..	..	..	....	....	....	....	....	....	....	....	..	....	
1. Ovarian Tumor	3	..	..	....	....	..	..	....	..	..	1	..	....	....	....	....	....	....	....	....	..	....	
2. Diseases of Uterus	17	..	1	....	....	1	..	....	..	2	..	..	1	....	....	....	....	....	....	....	..	....	
III.—ORDER 7. Organs of Locomotion	3	..	..	....	....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	..	....	
1. Arthritis	....	..	..	....	....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	..	....	
2. Joint Diseases	3	..	..	....	....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	..	....	
III.—ORDER 8. Integumentary System	59	..	1	....	....	..	..	..	5	1	3	..	....	....	....	....	....	3	....	3	..	....	
1. Phlegmon	22	..	1	....	....	..	..	..	2	..	2	..	....	....	....	....	....	1	....	3	..	....	
2. Ulcer	5	..	..	....	....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	..	....	
3. Skin Diseases	32	..	..	....	....	..	..	..	3	1	1	..	....	....	....	....	....	2	....	....	..	....	
CLASS IV.—DEVELOPMENTAL DISEASES	1,162	..	31	4	6	18	26	1	22	18	35	11	1	....	....	10	....	21	3	28	4	9	
IV.—ORDER 1. Developmental Diseases of Children	459	..	4	1	....	8	13	..	8	2	12	8	....	....	....	5	....	9	1	7	1	6	
1. Still-born	274	..	2	1	....	5	6	..	5	1	6	8	....	....	....	5	....	8	1	5	..	5	
2. Infantile	56	..	..	..	....	....	..	1	..	1	..	..	..	....	....	....	....	....	....	1	1	1	
2. Premature Birth	16	..	..	..	....	....	..	2	..	1	..	3	..	....	....	....	....	....	....	....	..	....	
3. Cyanosis	....	..	..	..	....	....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	..	....	
4. Spina Bifida	1	..	..	..	....	....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	..	....	
5. Other Malformations	6	..	1	....	....	..	..	..	..	1	..	..	..	....	....	....	....	1	....	....	..	....	
6. Teething	106	..	1	....	....	3	4	..	1	..	3	..	1	....	....	....	....	....	....	1	..	....	
7. Injury at Birth	....	..	..	..	....	....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	..	....	

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	STATE.	COUNTIES.—1873.																								
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
IV.—ORDER 2. Developmental Diseases of Women.	275	..	10	3	2	2	9	....	10	5	8	2	....	1	....	....	1	....	3	1	9	1	1
1. Dysmenorrhea	1	..	....	....	....	..	..	....	....	..	....	..	....	..	....	....	....	....	....	..	..	..	....
1. Turn of Life	4	..	....	....	....	..	..	....	....	..	....	..	....	..	....	....	....	....	....	..	..	..	....
2. Childbirth	260	..	10	3	2	2	8	....	10	5	8	1	....	1	....	....	1	....	3	1	9	1	1
2. Abortion	9	..	....	....	....	..	..	....	....	..	....	1	....	..	....	....	....	....	....	..	..	..	....
2. Uterine Hemorrhage	1	..	....	....	....	..	1	....	....	..	....	..	....	..	....	....	....	....	....	..	..	..	....
IV.—ORDER 3. Developmental Diseases of Old People..	428	..	17	....	4	8	4	1	4	11	15	1	....	..	....	....	4	....	9	1	12	2	2
1. Old Age	428	..	17	....	4	8	4	1	4	11	15	1	....	..	....	....	4	....	9	1	12	2	2
IV.—ORDER 4. Diseases of Nutrition	....	..	....	....	....	..	..	....	....	..	....	..	....	..	....	....	....	....	....	..	..	..	....
1. Atrophy and Debility	....	..	....	....	....	..	..	....	....	..	....	..	....	..	....	....	....	....	....	..	..	..	....
CLASS V.—VIOLENT DEATHS	685	2	19	2	4	11	12	1	15	7	15	7	....	4	3	1	8	....	6	1	10	3	8
V.—ORDER 1. Accident or Negligence	405	2	13	....	2	6	8	1	11	4	5	5	....	1	2	....	3	....	3	1	3	3	4
1. Fractures and Contusions	66	..	....	....	....	2	2	....	3	..	1	..	....	..	....	....	....	....	1	..	1	..	....
2. Wounds	12	2	2	....	....	..	..	....	....	..	....	..	....	..	....	....	....	....	....	..	..	..	....
3. Burns and Scalds	89	..	1	....	....	..	2	....	2	1	1	3	....	..	....	....	2	....	1	..	..	1	2
4. Poison	27	..	2	....	....	2	..	....	1	1	....	1	....	..	....	....	1	....	....	..	1	..	....
5. Drowning	108	..	4	....	1	..	2	1	3	1	2	1	....	1	2	....	....	....	....	1	..	..	3
6. Suffocation	21	..	1	....	....	..	..	....	....	1	1	..	....	....	....	....	....	....	....	..	..	..	....
7. Otherwise	82	..	3	....	1	2	2	....	2	..	....	..	....	....	....	....	....	....	1	..	1	2	....

V.—ORDER 2. In Battle																							
V.—ORDER 3. Homicide	17		2				1			1													
1. Murder	9																						
V.—ORDER 4. Suicide	39					2					2						1						1
1. Wounds																							
2. Poison	4										2												
3. Drowning	2																						
4. Hanging	11					1																	
5. Otherwise and not Specified	22					1											1						1
V.—ORDER 5. Execution																							
1. Hanging																							
V. ORDER 6. Violent Deaths not Included Above	224		1	2	2	3	3		4	2	8	2		3	1	1	4		3		7		3
Sudden, Cause Unknown																							
UNCLASSIFIED	72			1		2	2		2	1	6		1								4		1
1. Throat Disease	34					2	1		1		4										4		1
Cause not Specified	1,540		58	8		17	41	2	44	13	25	15	1	4	4	4	19		20	16	56	6	14

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																							
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
All Causes	317	214	113	242	258	68	69	333	275	17	700	63	19	298	46	406	168	21	278	101	7	255	57	92
Specified Causes	291	155	104	217	239	54	61	308	254	13	635	46	16	262	36	385	154	17	252	67	7	221	44	83
Causes not Specified	26	59	9	25	19	14	8	25	21	4	65	17	3	36	10	21	14	4	26	34	....	34	13	9
CLASSES																								
I.—Zymotic Diseases	81	59	33	82	75	27	23	80	46	5	207	19	4	78	10	110	26	4	73	23	1	89	15	33
II.—Constitutional Diseases	61	24	23	33	50	3	15	43	52	2	129	5	2	38	7	76	32	4	44	9	1	18	5	11
III.—Local Diseases	119	50	33	76	81	13	16	145	117	4	202	11	6	117	14	145	75	1	91	18	1	54	19	26
IV.—Developmental Diseases	15	12	11	18	20	3	2	25	27	1	59	4	2	18	3	35	16	5	30	11	1	23	1	1
V.—Violent Deaths	13	10	4	7	11	5	5	15	12	1	32	5	2	11	2	17	5	3	14	6	3	36	4	5
Unclassified	2	....	....	1	2	3	....	....	....	....	6	2	....	....	....	2	....	....	....	....	....	1	....	2
ORDERS.																								
I.—1. Miasmatic Diseases	80	58	33	81	75	27	23	79	42	5	205	19	4	77	10	109	25	4	73	22	1	86	15	33
2. Enthetic Diseases	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3. Dietic Diseases	1	1	....	1	....	....	....	1	3	....	....	....	....	1	....	1	1	....	....	1	....	3	....	....
4. Parasitic Diseases	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....
II.—1. Diathetic Diseases	16	....	9	14	15	....	1	10	14	2	40	2	1	9	1	19	12	2	8	1	1	10	....	4
2. Tubercular Diseases	45	24	14	19	35	3	14	33	38	....	89	3	1	29	6	57	20	2	36	8	....	8	5	7

III.—1. Diseases of Nervous System	60	28	17	39	32	5	7	60	66	1	93	6	3	53	8	56	38	....	34	5	1	26	5	4
2. Diseases of Organs of Circulation	6	1	3	8	16	1	1	17	8	1	16	1	.	12	.	21	7	....	11	..	....	2	..	8
3. Diseases of Respiratory Organs	26	9	6	15	18	2	3	34	22	2	46	3	3	31	2	43	20	1	14	5	....	19	7	12
4. Diseases of Digestive Organs	17	11	5	8	10	5	5	28	18	....	39	..	.	15	2	19	7	....	22	7	....	5	3	7
5. Diseases of Urinary Organs	7	..	1	5	2	..	..	6	3	....	6	..	.	4	.	4	3	....	7	..	....	1	3	....
6. Diseases of Generative Organs	..	..	....	..	..	..	..	..	..	....	....	..	.	1	1	....	..	....	2	..	....	..	1	....
7. Diseases of Organs of Locomotion	..	..	1	..	..	..	..	..	..	....	....	..	.	....	.	....	..	....	..	..	....	..	..	....
8. Diseases of Integumentary System	3	1	....	1	3	..	..	..	..	....	2	1	.	1	1	2	..	....	1	1	....	1	..	....
IV.—1. Developmental Diseases of Children	3	6	3	5	6	..	1	7	13	....	18	3	1	5	1	9	..	1	17	7	....	17	..	....
2. Developmental Diseases of Women	4	3	6	4	3	3	..	3	3	....	11	1	1	4	1	7	1	....	4	2	1	4	1	....
3. Developmental Diseases of Old People	8	3	2	9	11	..	1	15	11	1	30	..	.	9	1	19	15	4	9	2	....	2	..	1
4. Diseases of Nutrition	..	..	....	..	..	..	..	..	..	....	....	..	.	....	.	....	..	....	..	..	....	..	..	....
V.—1. Accident or Negligence	4	3	2	3	8	4	2	8	7	1	21	1	1	6	1	8	5	1	7	2	3	16	2	5
2. Battle	..	..	....	..	..	..	..	..	..	....	....	..	.	....	.	....	..	....	..	..	....	..	..	....
3. Homicide	..	..	....	..	1	..	..	..	..	....	1	1	.	....	.	....	..	1	1	..	....	1	..	....
4. Suicide	1	..	....	..	..	..	..	1	1	....	....	1	.	1	.	2	..	....	..	..	....	..	1	....
5. Execution	..	..	....	..	..	..	..	..	..	....	....	..	.	....	.	....	..	....	..	..	....	..	..	....
6. Violent Deaths	8	7	2	4	2	1	3	6	4	....	10	2	1	4	1	7	..	1	6	4	....	19	1	....
CLASS I.—ZYMOTIC	81	59	33	82	75	27	23	80	46	5	207	19	4	78	10	110	26	4	73	23	1	89	15	38
I.—ORDER 1. Miasmatic	80	58	33	81	75	27	23	79	42	5	205	19	4	77	10	109	25	4	73	22	1	86	15	38
1. Small-pox	1	..	....	..	..	5	..	..	..	....	2	..	.	1	.	....	..	....	..	..	....	6	..	....
2. Measles	1	3	1	5	8	3	7	7	4	....	8	1	1	8	1	4	..	....	2	..	1	17	..	....
3. Scarlatina	20	5	10	5	21	..	..	1	4	....	33	..	.	7	.	10	1	4	12	....	....	6	..	9
4. Diphtheria	2	..	2	4	6	..	1	9	..	....	13	..	.	10	.	11	..	....	7	1	....	7	4	2
5. Quinsy	..	..	1	..	..	..	..	..	..	....	2	..	.	....	.	....	..	....	..	....	....	1	..	....

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																							
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
6. Croup	4	3	....	1	2	....	....	3	2	1	11	2	1	3	2	5	....	....	2	2	....	4	....	1
7. Whooping-cough	3	4	2	9	4	1	4	5	1	....	6	5	....	4	1	13	3	....	12	....	....	5	1	6
8. Continued Fever	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8. Typhoid Fever	13	2	4	21	10	5	....	25	7	1	32	3	....	17	1	24	5	....	13	4	....	22	2	5
8. Typhus Fever	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8. Typho-malarial Fever	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9. Erysipelas	7	....	....	6	2	....	1	3	4	....	10	....	....	5	....	2	3	....	1	....	....	3	3	1
10. Puerperal Fever	2	....	....	1	4	....	....	1	1	....	2	....	....	2	....	1	....	....	....	....	....	....	....	1
11. Carbuncle	....	....	....	....	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
12. Influenza	2	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
13. Dysentery	5	6	2	5	6	7	....	2	2	2	22	3	1	3	3	....	2	....	5	3	....	....	2	5
14. Diarrhœa	3	16	5	3	1	2	....	3	1	....	18	4	....	2	2	1	2	....	7	1	....	7	....	4
15. Cholera Infantum	9	4	2	4	3	3	1	11	7	....	14	....	....	4	....	16	3	....	8	5	....	5	....	3
16. Cholera Morbus	1	....	2	....	....	....	1	1	2	....	4	....	....	1	....	1	1	....	1	....	....	1	....	....
16. Cholera	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....
17. Ague	2	....	....	6	5	....	6	1	2	1	12	....	....	6	....	12	3	....	2	....	....	1	1	....
18. Remittent Fever	3	14	....	9	1	1	....	2	3	....	15	....	1	2	....	4	....	....	....	5	....	....	2	1
19. Rheumatism	1	1	1	1	1	....	1	3	....	....	....	....	....	1	....	5	2	....	....	1	....	1	....	....
I.—ORDER 2. Enthetic	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

1. Syphilis										1															
2. Stricture of Urethra																									
Stricture																									
3. Hydrophobia																									
4. Glanders																									
I.—ORDER 3. Dietic	1	1		1				1	3					1		1	1			1		3			
1. Privation																									
2. Purpura																									
Rachitis																									
Scurvy																									
3. Delirium Tremens (Alcoholism)	1	1							1					1		1						2			
4. Intemperance				1				1	2								1			1		1			
I.—ORDER 4. Parasitic											2														
1. Thrush											2														
2. Worms																									
3. Diseases of Scalp																									
CLASS II.—CONSTITUTIONAL	61	24	23	33	50	3	15	43	52	2	129	5	2	38	7	76	32	1	44	9	1	18	5	11	
II.—ORDER 1. Diathetic	16		9	14	15		1	10	14	2	40	2	1	9	1	19	12	2	8	1	1	10		4	
1. Gout																									
2. Anæmia	2		3	3				2	3		11			3		1	2					7			
Dropsy	9		1	5	10			5	6		8			3		9	3		4			2		2	
3. Cancer	4		1	4	3			3	3		16			2		7	5		3		1				
4. Noma (Canker)	1		3	2	1		1		1	2	2		1	1		1						1			
5. Mortification			1		1				1		3					1	2								

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																							
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
II.—ORDER 2. Tubercular	45	24	14	19	35	3	14	33	38	....	89	3	1	29	6	57	20	2	36	8	....	8	5	7
1. Scrofula	....	..	1	1	4	....	1	3	....	....	3	....	....	1	....	1	....	....	....	....	....	..	....	....
2. Consumption of Bowels	3	..	....	..	..	....	....	....	....	....	4	....	....	....	....	1	....	....	....	....	....	..	....	....
3. Phthisis (Consumption of Lungs)	42	21	13	18	29	3	13	29	38	....	81	2	1	28	6	55	20	2	36	8	....	7	5	7
4. Hydrocephalus	....	..	....	..	2	....	....	....	....	....	....	....	....	....	....	..	....	....	....	....	....	..	....	....
5. Marasmus	....	3	....	..	..	....	....	1	....	....	1	1	....	....	....	..	....	....	....	....	....	1	....	....
CLASS III.—LOCAL DISEASES	119	50	33	76	81	13	16	145	117	4	202	11	6	117	14	145	75	1	91	18	1	54	19	26
III.—ORDER 1. Nervous System	60	28	17	39	32	5	7	60	66	1	93	6	3	53	8	56	38	....	34	5	1	26	5	4
1. Cephalitis	3	4	2	3	2	3	4	4	4	....	22	....	....	9	2	3	2	....	8	....	1	9	....	1
2. Apoplexy	3	1	....	..	..	....	....	2	4	....	5	1	....	....	....	3	1	....	3	....	....	1	....	....
3. Paralysis	9	1	3	4	3	....	....	11	7	....	4	1	....	2	1	14	4	....	6	....	....	..	1	....
4. Insanity	....	..	....	..	..	....	....	2	8	....	....	....	....	....	....	..	1	....	....	....	....	..	....	....
5. Chorea	....	..	....	..	..	....	....	1	....	....	....	....	....	....	....	..	1	....	....	....	....	..	....	....
6. Epilepsy	....	....	..	..	1	....	....	....	7	....	3	....	....	....	....	1	....	....	1	....	....	..	....	....
7. Tetanus	1	1	..	..	..	....	....	....	....	....	....	1	....	....	....	..	....	....	....	1	....	..	....	....
8. Convulsions	2	12	2	5	4	1	1	5	5	....	14	2	....	7	2	10	2	....	6	4	....	10	....	1
9. Brain Diseases	2	2	..	6	6	....	....	7	9	1	10	1	....	....	2	8	3	....	6	....	....	..	1	....
9. Dropsy of Brain	3	1	2	2	..	....	....	2	2	....	3	....	1	1	....	..	1	....	....	....	....	1	....	....
10. Spinal Fever	2	....	1	6	6	....	....	12	7	....	21	....	1	24	....	1	6	....	1	....	....	..	....	1

11. Spotted Fever	2	2	....	.	1	.	....	1	2	....	2	....	.	1	.	.	1	....	....	.	3	.	....
12. Meningitis	1	.	2	2	--	.	....	....	--	....	....	....	.	1	.	.	--	....	....	.	1	.	....
13. Meningitis, Cerebro-spinal	25	3	4	2	--	.	....	1	5	....	....	....	.	2	.	5	10	....	1	.	....	.	....
14. Meningitis, Spinal	5	.	....	4	3	.	2	7	3	....	3	....	.	3	1	7	3	....	....	.	....	1	....
15. Neuralgia	1	1	....	.	1	.	....	1	--	....	....	....	.	--	.	.	1	....	....	.	....	.	....
16. Spine Disease	1	.	1	5	5	1	....	4	3	.	6	....	1	3	.	4	2	....	2	.	1	2	1
17. Spine, Inflammation of	--	.	....	.	--	.	....	....	--	.	....	....	.	--	.	.	--	....	....	.	....	.	....
18. Frightened	--	.	....	.	--	.	....	....	--	.	....	....	.	--	.	.	--	....	....	.	....	.	....
III.—ORDER 2. Organs of Circulation	6	1	3	8	16	1	1	17	8	1	16	1	.	12	.	21	7	....	11	.	2	.	3
1. Pericarditis	--	.	....	1	2	.	1	3	2	.	5	....	.	3	.	6	1	....	1	.	....	.	1
2. Aneurism	1	.	....	1	--	1	....	....	--	.	....	....	.	--	.	.	--	....	....	.	....	.	1
3. Heart Disease	5	1	3	6	14	.	....	14	6	1	11	1	.	9	.	15	6	....	10	.	2	.	1
4. Emboli	--	.	....	.	--	.	....	....	--	.	....	....	.	--	.	.	--	....	....	.	....	.	....
III.—ORDER 3. Respiratory Organs	26	9	6	15	18	2	3	34	22	2	46	3	3	31	2	43	20	1	14	5	19	7	12
1. Epistaxis	--	.	....	1	--	.	....	....	--	.	....	....	.	.	.		--	....	....	.	....	.	....
2. Laryngitis	--	.	....	.	--	.	....	....	--	.	....	....	.	--	.	1	--	....	....	.	....	.	....
3. Bronchitis	1	2	....	.	1	.	....	....	1	.	....	1	.	1	.	.	--	....	....	1	1	.	....
4. Pleurisy	2	.	....	.	--	.	1	....	--	.	4	....	.	1	.	1	1	1	....	1	....	.	1
5. Pneumonia	16	5	3	13	16	2	2	28	18	2	33	2	1	25	2	33	11	....	6	3	15	7	9
6. Asthma	2	1	....	.	--	.	....	....	1	.	1	....	.	1	.	1	1	....	....	.	....	.	....
7. Lung Diseases	5	1	3	1	1	.	....	6	2	.	8	....	2	3	.	7	7	....	8	.	3	.	2
III.—ORDER 4. Digestive Organs	17	11	5	8	10	5	5	28	18	.	39	....	.	15	2	19	7	....	22	7	5	3	7
1. Gastritis	2	1	....	.	1	1	....	2	--	.	4	....	.	1	1	.	--	....	1	2	....	.	1
2. Enteritis	8	2	3	3	4	2	....	5	7	.	15	....	.	9	1	9	3	....	12	4	3	1	6
3. Peritonitis	--	.	1	.	1	.	....	1	1	.	....	....	.	--	.	.	--	....	....	.	....	.	....
4. Ascites	--	.	....	.	--	.	....	....	1	.	1	....	.	--	.	.	--	....	....	.	....	.	....

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																									
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
5. Ulceration of Intestines	....	....	....	....	....	....	....	....	-	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6. Hernia	....	....		1	1	....	....	....	1	....	1	....	....	1	....	1	1	....	3	....	....	1	....	....
7. Obstruction of Bowels	....	....		....	....	....	1	1	-	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8. Intussusception	....	....		....	....	....	....	....	-	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
9. Stricture of Intestines	....	....		....	....	....	....	....	-	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10. Fistula	....	....		....	....	....	....	....	-	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
11. Stomach Diseases	3	....		1	1	2	2	6	2	....	3	....	....	1	....	2	2	....	1	1	....	....	1	....
12. Pancreas Diseases	....	....		....	....	....	....	....	-	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13. Hepatitis	....	....		....	....	....	....	....	-	....	2	....	....	....	....	....	....	....	1	....	....	....	....	....
14. Jaundice	....	....		1	....	....	....	4	-	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
15. Liver Diseases	2	....		1	....	....	2	6	4	....	5	....	....	2	....	....	....	....	2	....	....	1	....	....
16. Spleen Diseases	....	....		....	....	....	....	....	-	....	1	....	....	....	....	5	....	....	....	....	....	....	....	....
17. Bowel Diseases, etc.	2	8		1	2	....	....	3	2	....	6	....	....	1	....	1	1	....	2	....	....	....	1	....
18. Mouth Disease	....	....		....	....	....	....	....	-	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
III.—ORDER 5. Urinary Organs	7	....		5	2	....	....	6	3	....	6	....	....	4	....	4	3	....	7	....	....	1	3	....
1. Nephritis	....	....		1	2	....	....	1	-	....	....	....	....	1	....	....	....	....	1	....	....	....	1	....
2. Ischuria	....	....		....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3. Bright's Disease of Kidneys	1	....		....	....	....	....	1	....	....	2	....	....	....	....	1	....	....	....	....	....	....	....	....
4. Diabetes	3	....		....	....	....	....	2	1	....	1	....	....	1	....	1	2	....	4	....	....	....	1	....

5. Calculus (Gravel, etc.)	2	....	1	1	....	....	....	1	....	....	2	....	....	1	....	1	....	....	1	....	....	....	....	....
6. Cystitis	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
7. Kidney Diseases	1	....	....	3	....	....	....	1	2	....	....	....	....	1	....	1	1	....	1	....	....	1	1	....
III.—Order 6. Generative Organs	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	2	....	....	....	1	....
1. Ovarian Dropsy	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
1. Ovarian Tumor	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....
2. Diseases of Uterus	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	1	....	....	....	....	....
III.—Order 7. Organs of Locomotion	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
1. Arthritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2. Joint Diseases	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
III.—Order 8. Integumentary System	3	1	....	1	3	....	....	....	....	....	2	1	....	1	1	2	....	....	1	1	....	1	....	....
1. Phlegmon	1	....	....	....	2	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	1	....	....
2. Ulcer	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
3. Skin Diseases	2	1	....	1	1	....	....	....	....	....	2	....	....	1	....	2	....	....	1	....	....	....	....	....
Class IV.—Developmental Diseases	15	12	11	18	20	3	2	25	27	1	59	4	2	18	3	35	16	5	30	11	1	23	1	1
IV.—Order 1. Developmental Diseases of Children.	3	6	3	5	6	....	1	7	13	....	18	3	1	5	1	9	....	1	17	7	....	17	....	....
1. Still-born	3	3	1	4	6	....	1	7	11	....	9	1	....	5	....	9	....	....	11	3	....	6	....	....
2. Infantile	....	....	1	1	....	....	....	....	....	....	3	....	1	....	....	....	....	....	4	1	....	....	....	....
2. Premature Birth	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	1	....	....
3. Cyanosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4. Spina Bifida	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5. Other Malformations	....	....	....	....	....	....	....	....	....	....	1	2	....	....	....	....	....	....	....	....	....	....	....	....
6. Teething	....	3	....	....	....	....	....	....	2	....	4	....	....	....	1	....	....	1	1	3	....	10	....	....
7. Injury at Birth	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																								
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IV.—ORDER 2. Developmental Diseases of Women...	4	3	6	4	3	3	....	3	3	....	11	1	1	4	1	7	1	....	4	2	1	4	1	....
1. Dysmenorrhea	....	....		....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....		....	....	-	....
1. Turn of Life	....	....		....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....		....	....	-	....
2. Childbirth	3	3	6	4	2	3	....	3	3	....	9	1	1	3	1	6	1	....	4	2	1	4	1	....
2. Abortion	1	....		....	1	....	....	....	....	....	1	....	....	....	....	1	....	....	....		....	....	-	....
2. Uterine Hemorrhage	....	....		....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....		....	....	-	....
IV.—ORDER 3. Developmental Diseases of Old People	8	3	2	9	11	....	1	15	11	1	30	....	....	9	1	19	15	4	9	2	....	2	-	1
1. Old Age	8	3	2	9	11	....	1	15	11	1	30	....	....	9	1	19	15	4	9	2	....	2	-	1
IV.—ORDER 4. Diseases of Nutrition...	....	....		....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....		....	....	-	....
1. Atrophy and Debility	....	....		....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....		....	....	-	....
CLASS V.—VIOLENT DEATHS	13	10	4	7	11	5	5	15	12	1	32	5	2	11	2	17	5	3	14	6	3	36	4	5
V.—ORDER 1. Accident or Negligence	4	3	2	3	8	4	2	8	7	1	21	1	1	6	1	8	5	1	7	2	3	16	2	5
1. Fractures and Contusions	2	....		3	2	....	....	1	1	....	1	....	....	2	....	1	2	....	3		....	4	-	....
2. Wounds	....	....		....	1	....	....	....	....	....	2	....	....	....	....	....	1	....	....		....	....	-	....
3. Burns and Scalds	1	1		....	....	....	1	1	....	1	6	....	1	....	....	2	1	....	....		....	2	-	1
4. Poison	1	....		....	1	....	....	....	1	....	2	....	....	....	....	1	....	....	1		....	....	-	2
5. Drowning	....	1		....	3	4	1	3	1	....	3	1	....	1	1	2	1	....	2	2	3	2	2	....
6. Suffocation	....	....		....	....	....	....	1	1	....	1	....	....	1	....	1	....	....	....		....	1	-	....
7. Otherwise	....	1		....	1	....	....	2	3	....	6	....	....	2	....	1	....		1		....	7	-	2

V.—ORDER 2. In Battle	..	..	....	..	..		....	..	..	..	..	..		..	..	..	....	..		..	....	..	....	....
V.—ORDER 3. Homicide	..	..	....	..	1		....	..	..	..	1	1		..	..	..	....	1		..	....	1	....	....
1. Murder	..	..	....	..	1		....	..	..	..	..	1		..	..	..	....	..		..	....	1	....	....
V.—ORDER 4. Suicide	1	..	....	..	..		....	1	1	..	..	1		1	..	2	....	..		..	....	..	1	....
1. Wounds	..	..	....	..	..		....	..	..	..	..	..		..	..	..	....	..	..	..	....	..	....	....
2. Poison	1	..	....	..	..		....	..	..	..	..	..		..	..	..	....	..	..	..	....	..	....	....
3. Drowning	..	..	....	..	..		....	..	..	..	..	..		..	..	1	....	..	..	..	....	..	....	....
4. Hanging	..	..	....	..	..		....	1	..	..	..	..		..	..	1	....	..	..	..	....	..	1	....
5. Otherwise and not Specified	..	..	....	..	..		....	..	1	..	..	1		1	..	..	....	..	..	..	....	..	....	....
V.—ORDER 5. Execution	..	..	....	..	..		....	..	..	..	..	..		..	..	..	....	..	..	..	....	..	....	....
1. Hanging	..	..	....	..	..		....	..	..	..	..	..		..	..	..	....	..	..	..	....	..	....	....
V.—ORDER 6. Violent Deaths not Included Above	8	7	2	4	2		3	6	4	..	10	2		4	1	7	....	1	6	4	....	19	1	....
Sudden, cause unknown	..	..	....	..	..		....	..	..	..	..	..		..	..	..	....	..	..	..	....	..	....	....
UNCLASSIFIED	2	..	....	1	2	3	....	..	..	..	6	2		..	..	2	....	..	..	..	....	1	....	2
1. Throat Disease	..	..	....	..	1		....	..	..	..	4	..		..	..	..	....	..	..	..	....	1	....	....
Cause not Specified	26	59	9	25	19	14	8	25	21	4	65	17	3	36	10	21	14	4	26	34	....	34	13	9

TABLE XVI.—Continued.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	Counties.—1873.																							
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
All Causes	45	66	7	244	238	229	103	304	103	23	68	376	2	664	176	17	191	494	201	211	357	359	1864	33
Specified Causes	35	57	7	220	218	192	90	274	98	17	63	318	2	565	153	17	177	433	193	188	338	328	1696	30
Causes not Specified	10	9	....	24	20	37	13	30	10	6	5	58	....	99	23	....	14	61	8	23	19	31	168	3
Classes.																								
I.—Zymotic Diseases	23	32	1	56	92	80	38	68	51	6	23	120	....	212	54	4	42	147	59	77	61	79	557	5
II.—Constitutional Diseases	3	5	2	43	28	36	17	61	13	3	8	38	1	91	30	4	31	66	38	13	64	69	328	5
III.—Local Diseases	5	15	3	68	72	50	26	107	24	5	22	114	....	178	52	4	85	132	75	67	175	115	500	12
IV.—Developmental Diseases	3	2	....	39	12	17	7	19	7	2	3	28	1	46	10	1	10	49	10	21	16	47	219	1
V.—Violent Deaths	1	3	1	13	10	9	2	19	3	1	6	16	....	37	7	4	8	33	8	10	19	17	84	7
Unclassified	....	....	....	1	4	....	....	....	....	....	1	2	....	1	....	....	1	6	3	....	3	1	8	....
Orders.																								
I.—1. Miasmatic Diseases	23	32	1	56	91	78	38	67	51	6	23	119	....	211	54	4	42	145	58	76	61	79	544	5
2. Enthetic Diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	....
3. Dietic Diseases	....	....	....	....	....	2	....	1	....	....	....	1	....	1	....	....	....	2	....	1	....	....	6	....
4. Parasitic Diseases	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	3	....
II.—1. Diathetic Diseases	1	3	2	8	2	9	10	21	4	....	2	9	1	35	9	....	9	19	13	3	16	20	129	....
2. Tubercular Diseases	2	2	....	35	26	27	7	40	9	3	6	29	....	56	21	4	22	47	25	10	43	49	199	5

III.—1. Diseases of *Nervous System*	4	8	3	36	42	22	13	40	10	1	20	55	....	87	25	....	47	53	34	31	106	53	255		3
2. Diseases of Organs of Circulation	..	1	..	5	6	3	2	22	6	..	..	7	....	15	3	1	6	18	6	3	6	12	68	....	
3. Diseases of Respiratory Organs	..	3	..	15	14	10	8	22	4	3	..	32	....	41	8	1	19	29	22	26	44	29	86	4	
4. Diseases of Digestive Organs	1	2	..	9	8	15	2	16	3	1	2	17	....	29	13	2	12	16	11	4	18	13	65	5	
5. Diseases of Urinary Organs	..	1	..	1	1	..	1	3	..	..	..	3	....	1	3	....	1	9	2	3	1	5	13	....	
6. Diseases of Generative Organs	..	..	..	1	1	..	..	1	1	..	..	..	....	....	....	....	..	2	..	..	..	1	2	....	
7. Diseases of Organs of Locomotion	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	....	..	..	..	..	..	2	..	....	
8. Diseases of Integumentary System	..	..	..	1	..	..	..	3	..	..	..	..	....	5	....	....	..	5	..	..	..	..	11	....	
IV.—1. Developmental Diseases of Children	2	..	..	19	1	5	2	2	3	..	3	12	....	22	1	1	1	23	3	15	4	10	120	1	
2. Developmental Diseases of Women	1	2	..	9	6	5	4	6	3	..	..	4	1	19	6	....	5	8	1	2	2	14	42	....	
3. Developmental Diseases of Old People	..	..	..	11	5	7	1	11	1	2	..	12	....	5	3	....	4	18	6	4	10	23	57	....	
4. Diseases of Nutrition	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	....	..	..	..	..	..	..	..	....	
V.—1. Accident or Negligence	1	3		7	9	5	1	8	3	..	5	10	....	20	5	4	5	22	2	5	13	8	63	7	
2. Battle	..	..	..	..	..	..	..	..	..	..	..	..	....	....	..	..	..	..	..	..	..	..	..	....	
3. Homicide	..	..	..	1	..	1	..	..	..	..	..	..	....	1	..	..	..	2	..	..	..	1	1	....	
4. Suicide	..	..	..	3	..	..	..	2	..	..	1	1	....	3	..	..	1	..	3	..	3	3	5	....	
5. Execution	..	..	..	..	..	..	..	..	..	..	..	..	....	....	..	..	..	..	..	..	..	..	..	....	
6. Violent Deaths	..	..	..	2	1	3		9	..	1	..	5	....	13	2	..	2	9	3	5	3	5	15	....	
CLASS I.—ZYMOTIC	23	32		56	92	80	38	68	51	6	23	120	....	212	54	4	42	147	59	77	61	79	557	5	
I.—ORDER 1. Miasmatic	23	32		56	91	78	38	67	51	6	23	119	....	211	54	4	42	145	58	76	61	79	544	5	
1. Small-pox	..	..	..	3	..	2	..	1	..	..	3	3	....	13	1	..	..	6	2	4	1	..	22	....	
2. Measles	1	2	..	..	12	7	5	1	3	1	3	6	....	23	2	..	10	23	2	4	7	1	2	....	
3. Scarlatina	..	12	..	4	20	8	3	13	5	..	..	14	....	22	25	..	3	36	9	12	1	6	128	....	
4. Diphtheria	1	2	..	1	3	7	..	2	..	..	1	4	....	17	3	..	2	19	5	1	1	7	2	1	
5. Quinsy	..	..	..	..	..	..	..	..	..	..	..	1	....	....	..	..	..	..	..	..	1	..	1	....	

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																								
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
6. Croup	----	2	----	8	----	1	----	4	1	----	1	9	----	14	2	-	2	6	3	5	2	6	20	----
7. Whooping-cough	----	3	----	4	9	5	8	5	4	3	----	10	----	3	3	-	7	7	2	3	2	--	7	----
8. Continued Fever	----	----	----	----	----	----	----	----	----	----	----	-	----	----	----	-	-	----	----	-	----	--	1	----
8. Typhoid Fever	5	4	1	9	10	11	7	16	3	2	5	17	----	36	4	1	4	13	11	16	8	32	74	2
8. Typhus Fever	----	----	----	----	----	----	----	----	----	----	----	10	----	3	----	-	-	----	1	-	----	--	3	----
8. Typho-malarial Fever	----	----	----	----	----	----	----	----	----	----	----	-	----	----	1	----	-	4	----	-	----	--	----	----
9. Erysipelas	----	1	----	5	4	1	2	4	1	----	----	3	----	6	2	----	1	3	4	4	3	1	11	----
10. Puerperal Fever	----	----	----	----	----	----	1	----	2	----	----	1	----	----	----	----	-	----	2	2	4	3	1	----
11. Carbuncle	----	----	----	----	----	----	----	1	----	----	----	-	----	----	----	----	-	----	----	-	----	--	----	----
12. Influenza	----	----	----	----	----	1	----	1	1	----	----	-	----	----	1	----	-	1	----	-	----	--	----	----
13. Dysentery	16	----	----	4	7	5	1	4	18	----	4	7	----	9	2	----	4	----	3	2	5	3	33	----
14. Diarrhea	----	3	----	11	----	18	2	1	5	----	----	1	----	34	5	----	1	5	3	4	3	2	149	1
15. Cholera Infantum	----	3	----	3	12	1	4	2	4	----	----	7	----	10	----	3	2	10	2	-	8	6	43	----
16. Cholera Morbus	----	----	----	1	----	1	----	----	----	----	2	-	----	4	----	----	1	3	----	3	1	--	2	----
16. Cholera	----	----	----	----	1	----	----	----	1	----	----	-	----	1	----	----	-	1	----	-	----	1	----	1
17. Ague	----	----	----	1	6	6	3	2	3	----	1	9	----	7	2	----	2	----	2	4	12	3	15	----
18. Remittent Fever	----	----	----	2	4	3	1	8	----	----	2	5	----	7	1	----	2	5	4	11	1	7	18	----
19. Rheumatism	----	----	----	----	3	1	1	2	----	----	1	2	----	2	----	----	1	3	3	1	1	1	12	----
I.—ORDER 2. Enthetic	----	----	----	----	----	----	----	----	----	----	----	-	----	----	----	----	-	----	----	-	----	--	4	----

1. Syphilis																							4	
2. Stricture of Urethra																								
2. Stricture																								
3. Hydrophobia																								
4. Glanders																								
I.—Order 3. Dietic						2		1				1			1				2		1		6	
1. Privation																								
2. Purpura																								
2. Rachitis																								
2. Scurvy																			1					
3. Delirium Tremens (Alcoholism)						2						1			1						1		3	
4. Intemperance								1											1				3	
I.—Order 4. Parasitic					1															1			3	
1. Thrush					1															1				
2. Worms																							3	
3. Diseases of Scalp																								
Class II.—Constitutional	3	5	2	43	28	36	17	61	13	3	8	38	1	91	30	4	31	66	38	13	64	69	328	5
II.—Order 1. Diathetic	1	3	2	8	2	9	10	21	4		2	9	1	35	9		9	19	13	3	16	20	129	
1. Gout																								
2. Anæmia							3	4	1		2	1		9	7		2	5	4	1	3	5	66	
2. Dropsy	1	2		6	2	3	4	7				3	1	19	2		5	5	8		7	8	38	
3. Cancer				1		1	2	8	1			4		4			2	8	1	2	3	7	20	
4. Noma (Canker)		1	2			5		2	2					3				1			3		3	
5. Mortification				1			1					1											2	

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																								
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
II.—ORDER 2. Tubercular	2	2	....	35	26	27	7	40	9	3	6	29	....	56	21	4	22	47	25	10	48	49	199	5
1. Scrofula	1	....	....	....	2	....	2	....	....	....	....	1	....	1	1	3	....	1	....	1	4	1	1	....
2. Consumption of Bowels	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
3. Phthisis (Consumption of Lungs)	1	2	....	34	24	27	5	40	9	3	6	27	....	55	20	1	22	46	25	9	43	48	198	5
4. Hydrocephalus	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5. Marasmus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
CLASS III.—LOCAL DISEASES	5	15	3	68	72	50	26	107	24	5	22	114	....	178	52	4	85	132	75	67	175	115	500	13
III.—ORDER 1. Nervous System	4	8	3	36	42	22	13	40	10	1	20	55	....	87	25	....	47	53	34	31	106	53	255	3
1. Cephalitis	4	2	....	9	11	6	2	6	3	....	1	13	....	24	3	....	7	11	4	6	10	6	47	....
2. Apoplexy	....	....	....	2	4	1	....	6	1	....	....	3	....	4	2	....	1	1	1	....	3	3	10	....
3. Paralysis	....	....	....	4	1	2	1	4	....	....	....	3	....	2	1	....	8	5	2	1	5	4	14	....
4. Insanity	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	1	1	....	1	....	2	....
5. Chorea	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....
6. Epilepsy	....	....	....	....	....	....	....	1	....	....	2	1	....	....	....	....	....	....	1	....	....	2	9	....
7. Tetanus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
8. Convulsions	....	1	....	6	2	5	....	6	1	....	3	10	....	17	6	....	5	15	3	4	3	5	64	....
9. Brain Diseases	....	2	1	1	5	3	1	6	....	1	1	4	....	9	1	....	7	2	....	....	11	4	15	2
9. Dropsy of Brain	....	....	....	1	2	2	....	1	1	....	....	3	....	2	....	....	2	6	1	1	....	....	21	1
10. Spinal Fever	....	....	....	4	13	....	1	1	1	....	4	4	....	5	4	....	8	5	18	8	33	1	2	....

... Spotted Fever					1	1			3	1		1	1				1			1			3	1	2		6			
12. Meningitis																														
13. Meningitis, Cerebro-spinal		3					2										1		1			6	12	7	18					
14. Meningitis, Spinal						3	6		1			5	6						3	3			25	13	16					
15. Neuralgia								1				1	1									1		1	3					
16. Spine Disease			2	6	2			4	1			2	3		22	7			4	4		3		6	26					
17. Spine, Inflammation of					1																									
18. Frightened																														
III.—ORDER 2. Organs of Circulation		1		5	6	3	2	22	6			7		15	3	1	6	18	6	3	6	12	68							
1. Pericarditis					1		1	2	1			2		1	1		1	1			1	1	9							
2. Aneurism																							1							
3. Heart Disease		1		3	5	3	1	20	5			5		14	2	1	5	17	6	3	5	11	58							
4. Emboli																														
III.—ORDER 3. Respiratory Organs		3		15	14	10	8	22	4	3		32		41	8	1	19	29	22	26	44	29	86	4						
1. Epistaxis																														
2. Laryngitis																							1							
3. Bronchitis										1				2			1	1	1	1	3	2	4							
4. Pleurisy								2				3			1		1			2		1	4							
5. Pneumonia		3		12	12	8	6	13	3	2		25		30	7	1	15	20	18	20	31	21	54	4						
6. Asthma								1				2		1					1				5							
7. Lung Diseases				2	2	2	2	6	1			2		8			2	8	2	3	10	5	18							
III.—ORDER 4. Digestive Organs	1	2		9	8	15	2	16	3	1	2	17		29	13	2	12	16	11	4	18	13	65	5						
1. Gastritis						3		1				1							2		3	1	2	2						
2. Enteritis	1	1		4	4	8	1	7	2	1	1	7		9	8	1	5	10	3	2	7	7	27	3						
3. Peritonitis						1								1		1	1	1												
4. Ascites																					1									

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																								
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
5. Ulceration of Intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
6. Hernia	....	....	....	....	1	....	....	1	....	....	....	....	....	1	....	....	....	2	....	....	....	....	1	....
7. Obstruction of Bowels	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....
8. Intussusception	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
9. Stricture of Intestines	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10. Fistula	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
11. Stomach Diseases	....	....	....	3	....	....	....	5	1	....	....	2	....	10	2	....	2	2	....	....	3	....	5	....
12. Pancreas Diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13. Hepatitis	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	1	....	3	....
14. Jaundice	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	1	....	....	....	2	2	....
15. Liver Diseases	....	1	....	....	2	3	1	1	....	....	....	6	....	4	2	....	3	....	5	1	1	2	17	....
16. Spleen Diseases	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
17. Bowel Diseases, etc.	....	....	....	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	2	1	7	....
18. Mouth Disease	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
III.—ORDER 5. Urinary Organs	....	1	....	1	1	....	1	3	....	....	....	3	....	1	3	....	1	9	2	3	1	5	13	....
1. Nephritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	1	....	1	1	....
2. Ischuria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3. Bright's Disease of Kidneys	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	2	....	....	....	....	3	....
4. Diabetes	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	2	2	....

5. Calculus (Gravel, etc.)				1				1				1								3	1	1				
6. Cystitis															1							1		1		
7. Kidney Diseases		1			1		1	1				2					1	2	1			1	6		
III.—Order 6. Generative Organs				1	1			1										2				1	2		
1. Ovarian Dropsy																									
1. Ovarian Tumor																									
2. Diseases of Uterus				1	1			1										2				1	2		
III.—Order 7. Organs of Locomotion																						2			
1. Arthritis																									
2. Joint Diseases																						2			
III.—Order 8. Integumentary System				1				3						5				5					11		
1. Phlegmon								1						1				3					2		
2. Ulcer								1										1					2		
3. Skin Diseases				1				1						4				1					7		
Class IV.—Developmental Diseases	3	2		39	12	17	7	19	7	2	3	28		46	10		10	49	10	21	16	47	219	1	
IV.—Order 1. Developmental Diseases of Children	2			19	1	5	2	2	3		3	12		22	1		1	23	3	15	4	10	120	1	
1. Still-born	2			5		3	2	1	3		3	7		19	1		1	13	2	13	4	8	47	1	
2. Infantile				13								3		2				2		2			18		
2. Premature Birth					1			1				2											2		
3. Cyanosis																									
4. Spina Bifida																									
5. Other Malformations																									
6. Teething				1		2								1				8	1			2	52		
7. Injury at Birth																									

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1873.	COUNTIES.—1873.																								
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
IV.—ORDER 2. Developmental Diseases of Women	1	2	....	9	6	5	4	6	3	....	....	4	1	19	6	....	5	8	1	2	2	14	42	....
1. Dysmenorrhea	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
1. Turn of Life	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	1	....
2. Childbirth	1	2	....	9	6	4	4	6	3	....	....	4	1	18	5	....	4	8	1	2	2	13	40	....
2. Abortion	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	1	....
2. Uterine Hemorrhage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
IV.—ORDER 3. Developmental Diseases of Old People	....	....	....	11	5	7	1	11	1	2	....	12	....	5	3	....	4	18	6	4	10	23	57	....
1. Old Age	....	....	....	11	5	7	1	11	1	2	....	12	....	5	3	....	4	18	6	4	10	23	57	....
IV.—ORDER 4. Diseases of Nutrition	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
1. Atrophy and Debility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
CLASS V.—VIOLENT DEATHS	1	3	1	13	10	9	2	19	3	1	6	16	....	37	7	4	8	33	8	10	19	17	84	7
V.—ORDER 1. Accident or Negligence	1	3	1	7	9	5	1	8	3	....	5	10	....	20	5	4	5	22	2	5	13	8	63	7
1. Fractures and Contusions	....	1	....	2	....	1	....	....	....	....	2	2	....	2	....	....	....	....	1	....	1	4	18	....
2. Wounds	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....
3. Burns and Scalds	1	1	....	3	3	1	....	3	1	....	2	2	....	7	4	....	4	4	....	....	3	1	11	4
4. Poison	....	....	....	1	....	1	....	1	....	....	....	....	....	1	....	....	....	2	1	....	....	....	2	....
5. Drowning	....	....	....	....	1	2	....	2	....	....	1	4	....	7	....	4	1	6	....	3	3	2	16	3
6. Suffocation	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	2	....	....	5	....	3	....
7. Otherwise	....	1	....	1	5	....	1	2	1	....	....	1	....	2	1	....	....	7	....	2	1	1	13	1

V.—ORDER 2. In Battle																							
V.—ORDER 3. Homicide			1		1							1				2				1	1		
1. Murder			1		1							1				1				1	1		
V.—ORDER 4. Suicide			3				2			1		3			1		3		3	3	5		
1. Wounds																							
2. Poison																			1				
3. Drowning																					1		
4. Hanging			2							1					1					1	1		
5. Otherwise and not Specified			1				2					3					3		2	2	3		
V.—ORDER 5. Execution																							
1. Hanging																							
V.—ORDER 6. Violent Deaths not Included Above			2		3	1	9		1		5	13	2		2	9	3	5	3	5	15		
Sudden, cause unknown																							
UNCLASSIFIED			1	4						1	2	1			1	6	3		3	1	8		
1. Throat Disease																5			3	1	2		
Cause not Specified	10	9	24	20	37	13	30	10	6	5	58	99	23		14	61	8	23	19	31	168	3	

TABLE XVII.—*Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of Persons Returned as having Died during the Year ending December 31, 1873; and also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during the Years 1869, 1870, 1871, and 1872 (Still-births included).*

ALL CAUSES.

SEX.	MONTHS, 1873.													YEARS.					AGES IN PERIODS OF YEARS.—1873.																							
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	859	1104	1248	1174	1121	1040	1176	1535	1471	1258	1067	1136	69	14258	13371	9728	10766	9145	5899	838	530	648	759	580	463	544	445	427	399	360	489	431	466	344	404	232
Males	446	583	647	630	586	567	613	841	777	697	588	640	36	7651	7182	5190	5589	4796	3249	450	260	324	364	250	211	253	238	245	240	197	291	234	276	192	243	134
Females.	413	520	601	541	535	471	561	693	694	560	476	493	32	6590	6162	4503	5140	4306	2634	388	270	324	395	330	252	291	207	182	159	163	198	197	190	152	161	97
Unknown	....	1	....	3	....	2	2	1	....	1	3	3	1	17	27	35	37	43	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females...	1	..	..	2	3	1	..	..	..	1	..	1	..	9	10	14	6	7	Abortion	..	..	..	1	2	1	3	1	1	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	2	....	Abscess of Abdomen	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	2	1	....	" " "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Abscess of Armpit and Thigh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	....	....	Abscess in Ankle	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	Abscess of Back	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	" " "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	3	....	....	....	Abscess of Bowels	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	3	....	Abscess of Brain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	" " "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Abscess in Chest and Limbs	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Abscess in Face or Cheek	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Abscess, Femoral	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	1	..	..	..	..	..	..	..	1	..	2	....	2	3	....	Abscess of Head	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	" " "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]	..	..	1	..	..	..	..	..	..	..	..	..	..	1	1	....	....	....	Abscess of Hip	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	" " "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Abscess, Internal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Abscess near right Kidney	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Abscess of Kidneys	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females	--	--	--	--	--	--	--		--		--	--	--	1	----	----	----	----	Abscess of Kidneys	----	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
Males	--	--	--	--	--	--	--		--		--	--	--	----	----	----	----	1	Abscess of Leg	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Females	--	--	--	1	--	--	--		--		--	--	--	1	----	----	----	----	" " "	----	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
Males	--	--	--	--	--	--	--		--		--	1	--	1	----	----	----	----	Abscess of Limb	----	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
Total	--	2	--	--	--	--	1		--		--	1	--	5	5	6	4	7	Abscess of Liver	1	--	--	--	1	--	1	--	--	--	--	1	1	--	--	--	--
Males	--	2	--	--	--	--	1		--		--	--	--	4	5	3	2	4	" " "	1	--	--	--	1	--	1	--	--	--	--	1	--	--	--	--	--	--
Females	--	--	--	--	--	--	--		--		--	1	--	1	----	3	2	3	" " "	----	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
Males	--	--	--	--	--	--	--		--		--	--	--	----	1	----	----	----	Abscess of Lower Limbs	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Females	--	--	--	--	--	--	--		--		--	--	--	----	1	----	----	----	Abscess, Lumbar	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Males	--	--	--	1	--	--	--		1		--	--	--	2	----	2	1	2	Abscess of Lungs	----	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--
Females	--	--	--	--	--	--	--		--		--	--	--	----	1	3	----	----	" " "	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Males	--	--	--	--	--	--	--		--		--	--	--	1	1	----	----	----	Abscess of Neck	----	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Females	--	--	--	--	--	--	--		--		--	--	--	----	2	----	----	----	" " "	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Males	--	--	--	--	--	--	--		--		--	--	--	----	1	----	----	----	Abscess, Pelvic	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Males	--	--	--	--	--	--	--		--		--	--	--	----	1	----	----	----	Abscess, Psoas	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Males	--	--	--	--	--	1	1		--		--	--	--	2	2	4	2	----	Abscess in Side	----	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	--
Females	--	--	--	--	--	--	--		--		--	--	--	----	2	----	2	----	" " "	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Males	--	1	--	--	--	--	--		--		--	--	--	1	----	----	----	----	Abscess of Spine	----	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
Males	--	--	--	--	1	--	--		--		--	--	--	1	----	----	----	----	Abscess of Spleen	----	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
Males	--	--	--	--	--	--	--		1		1	--	--	2	2	1	----	----	Abscess of Stomach	----	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--
Females	--	--	--	--	--	--	--		--		--	--	--	----	2	----	----	----	" " "	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	1	2	..	2	2	..	1	..	..	1	..	4	..	13	14	8	11	20	Asthma	1		..	..	..	..	..	..		..	..	1	5	2	1	2	..	..
Females	1	1	1	..	3	..	1	..	..	..	..	1	..	8	11	8	11	4	"			..	1	..	1	1	1		..	..	1	1	..	1	..	1	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Biliary Calculus			..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	2	....	....	Black Vomit			..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	1	..	..	..	..	..	..	..	..	1	2	3	....	....	Bladder, Disease of			..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Total	..	..	1	..	..	1	1	1	..	1	..	3	..	8	6	4	7	6	Bladder, Inflammation of	1		..	..	..	..	..	..		..	..	1	2	1	1	2	..	..
Males	..	..	1	..	..	1	1	1	..	1	..	2	..	7	6	4	7	4	" " "	1		..	..	..	..	..	..		..	..	..	2	1	1	2	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	1	..	1	....	....	....	2	" " "			..	..	..	..	..	..		..	..	1	..	..	..	..	..	..	..
Males	..	..	..	1	..	..	..	..	..	..	..	..	..	1	....	....	....	....	Bladder, Inflammation of, Acute			..	..	..	..	..	..		..	..	..	..	..	..	1	..	..
Females	..	..	..	1	..	..	..	..	..	..	..	..	..	1	....	....	....	....	Bladder, Ulcer. of			..	..	..	..	1	..		..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	Blood Poisoning			..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Total	..	1	..	1	1	..	1	2	5	1	3	..	..	15	15	12	9	8	Bowels, Consumption of	7		1	..	1	2	2	..		..	1	..	1	..	..	..	..	..	..
Males	..	..	..	..	1	..	..	..	2	..	1	..	..	4	8	6	5	3	" " "	2		1	..	1	..	..	..		..	..	..	..	..	..	..	..	..	..
Females	..	1	..	1	..	..	1	2	3	1	2	..	..	11	7	6	4	5	" " "	5		..	..	..	2	2	..		..	1	..	1	..	..	..	..	..	..
Total	1	1	4	5	3	8	3	7	10	5	5	4	1	57	34	27	40	45	Bowels, Disease of	32	2	2	..	1	1	2	4		4	2	2	..	1	1	1	..	1
Males	1	..	1	2	2	6	..	4	7	3	3	2	..	31	20	16	23	23	" " "	18		1	..	1	1	..	1		2	2	2	..	..	1	1	..	..
Females	..	1	3	3	1	2	3	3	3	2	2	2	1	26	14	11	17	22	" " "	14		1	..	..	..	2	3		2	..	..	..	1	..	..	..	1
Total	27	17	20	22	23	21	29	24	31	27	22	22	..	285	234	184	187	119	Bowels, Inflammation of	123	11	16	22	24	11	10	16	14	5	8	5	5	3	8	2	1	1
Males	13	6	10	14	11	12	17	11	18	19	8	12	..	151	105	100	97	64	" " "	77	6	7	12	6	6	3	6	6	5	4	3	3	..	5	1	1	..
Females	14	11	10	8	12	9	12	13	13	8	14	10	..	134	129	84	90	55	" " "	46	5	9	10	18	5	7	10	8	..	4	2	2	3	3	1	..	1
Males	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	....	Bowels, Inflammation of, Chronic			..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Females																			Bowels, Invagination of																		

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	..	1	1	..	2	..	..	1	..	..	..	..	..	5	....	....	....	....	Bronchitis, Capillary	3	..	1	.	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Males	..	1	1	..	..	..	..	..	..	..	..	..	..	2	....	....	....	....	" "	1	..	..	.	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Females	..	..	..	..	2	..	..	1	..	..	..	..	..	3	....	....	....	....	" "	2	..	1	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	..	..	..	..	..	..	..	..	1	..	..	..	2	2	1	....	....	Bronchitis, Chronic	....	1	..	.	..	..	..	..	..	..	..	..	..	..	1	..	..
Males	..	..	..	..	..	..	..	..	..	1	..	..	..	1	2	....	....	....	" "	....	1	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	1	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	" "	....	..	..	.	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Total	3	8	2	6	4	4	2	5	3	5	3	7	..	52	30	49	62	68	Burns	17	11	10	3	1	3	1	..	2	..	..	1	1	..	..	..	1
Males	1	4	1	3	2	1	..	..	..	2	1	4	..	19	11	15	24	22	"	6	6	2	1	1	..	..	..	..	..	..	1	1	..	..	..	1
Females	2	4	1	3	2	3	2	5	3	3	2	3	..	33	19	34	38	46	"	11	5	8	2	..	3	1	..	2	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	....	Cancer, Lupus	....	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	....	"Cancerous Ossification of Stomach"	....	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	5	11	19	10	16	16	16	17	20	13	14	14	..	171	130	105	120	113	Cancer	7	1	..	.	3	4	2	11	14	9	24	17	22	26	12	7	7	5
Males	2	8	9	2	6	7	5	9	8	6	7	6	..	75	56	48	47	47	"	3	1	..	.	..	..	1	3	6	4	11	8	12	12	8	2	3	1
Females	3	3	10	8	10	9	11	8	12	7	7	8	..	96	74	57	73	66	"	4	..	..	.	3	4	1	8	8	5	13	9	10	14	4	5	4	4
Males	..	..	1	..	..	..	..	1	..	..	..	..	..	2	....	....	....	....	Canker Rash	2	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	1	2	..	1	3	5	9	12	7	4	4	..	49	59	35	37	47	Canker (Noma)	41	..	..	.	4	..	1	..	..	..	1	..	..	..	1	..	1
Males	..	1	1	..	..	3	1	7	4	3	4	2	..	26	31	14	17	24	" "	23	..	..	.	1	..	..	..	..	..	1	..	..	..	1	..	..
Females	1	..	1	..	1	..	4	2	8	4	..	2	..	23	28	21	20	23	" "	18	..	..	.	3	..	1	..	..	..	..	..	..	..	..	..	..	1
Females	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	....	....	Carbuncle on Head	1	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	....	Carbuncle on Neck	....	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	1	..	..	..	..	1	..	..	3	....	....	1	1	Carbuncle	....	..	..	.	..	..	..	..	..	..	..	1	..	1	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	..	..	..	..	..	1	..	..	..	..	..	..		1	4	2	..	..	Choked	1	..	..			.	..	.	..	..	..	.	..	..	..	..		..
Total	3	3	2	4	7	18	62	96	73	25	7	6		306	394	129	181	108	Cholera Infantum	302	4	..			.	..	.	..	..	..	.	..	..	..	..		..
Males	3	1	1	4	2	10	36	55	46	12	4	5		179	221	69	98	60	" "	178	1	..		..	.	..	.	..	..	..	.	..	..	..	..		..
Females	..	2	1	..	5	8	26	41	27	13	3	1		127	172	59	83	48	" "	124	3	..	..	..	.	..	.	..	..	..	.	..	..	..	..		..
Unknown	..	..	..	..	..	..	..	..	..	..	..	..		..	1	1	..	..	" "	..	..	..	..	..	.	..	.	..	..	..	.	..	..	..	..		..
Total	..	..	..	..	2	1	14	4	10	5	1	..		37	49	16	30	21	Cholera Morbus	10	3	2	3	1	1	2	.	2	2	1	3	3	1	1	1		..
Males	..	..	..	..	1	1	9	1	7	4	.	..		23	32	9	19	16	" "	3	3	1	1	1	1	2	.	2	1	1	3	2	1	..	..		..
Females	..	..	..	..	1	..	5	3	3	1	1	..		14	17	7	11	5	" "	7	..	1	2	..	.	..	.	..	1	..	.	1	..	1	1		..
Total	..	..	..	1	.	..	2	4	2	..	.	..		9	13	1	9	9	Cholera	5	..	..	..	..	1	..	.	..	..	..	2	..	..	1	..		..
Males	..	..	..	1	.	..	..	3	2	..	.	..		6	7	1	4	8	"	3	..	..	..	..	1	..	.	..	..	..	1	..	..	1	..		..
Females	..	..	..	..	.	..	2	1	..	..	.	..		3	6	..	5	1	"	2	..	..	..	..	.	..	.	..	..	..	1	..	..	..	..		..
Females	1	..	..	..	1	..	..	..	..	..	2	1		5	..	..	1	.	Chorea [a]	..	..	..	..	2	.	..	.	1	..	..	.	1	..	1	..		..
Males	..	..	..	..	.	..	..	..	..	..	.	..		..	1	..	..	.	Cold in Head	..	..	..	..	..	.	..	.	..	..	..	.	..	..	..	..		..
Females	..	..	..	..	.	..	..	..	..	..	.	1		1	..	..	..	.	Cold on Lungs	..	..	..	..	..	.	..	1	..	..	..	.	..	..	..	..		..
Total	3	2	1	1	1	4	1	..	..	2	1	2		18	13	12	..	.	Cold	15	..	..	..	1	.	..	1	..	..	..	.	..	1	..	..		..
Males	2	1	..	1	.	3	1	..	..	1	1	1		11	7	7	..	.	"	9	..	..	..	1	.	..	1	..	..	..	.	..	..	..	..		..
Females	1	1	1	..	1	1	..	..	..	1	.	1		7	6	5	..	.	"	6	..	..	..	..	.	..	.	..	..	..	.	..	1	..	..		..
Total	..	..	1	..	.	..	..	1	1	..	1	..		4	7	7	10	4	Colic, Bilious	..	..	..	..	1	.	..	2	..	..	..	.	..	..	1	..		..
Males	..	..	1	..	.	..	..	..	..	..	.	..		1	3	6	4	3	" "	..	..	..	..	..	.	..	1	..	..	..	.	..	..	..	..		..
Females	..	..	..	..	.	..	..	1	1	..	1	..		3	4	1	6	1	" "	..	..	..	..	1	.	..	1	..	..	..	.	..	..	1	..		..
Males	..	..	..	..	.	..	..	..	..	..	.	..		..	1	..	2	.	Colic, Painters'	..	..	..	..	..	.	..	..	..	..	..	.	..	..	..	..		..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females...	7	8	8	4	2	6	3	3	3	7	8	10	..	69	66	68	53	51	Croup	61	7	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Unknown.	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	....	2	"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	Cyanosis	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	1	2	"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	2	....	Debility, Nervous	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	2	..	..	..	..	..	..	..	..	..	..	..	2	2	....	6	....	" "	....	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
Total	7	17	16	16	10	14	16	18	21	17	13	19	..	184	143	114	111	101	Debility	97	1	2	1	2	..	1	2	2	..	2	3	9	10	17	20	10	5
Males	3	10	8	9	7	9	6	8	9	8	9	11	..	97	75	57	53	48	"	44	..	2	1	..	..	..	1	2	..	1	2	5	6	11	10	8	4
Females...	4	7	8	7	3	4	10	10	12	9	4	8	..	86	68	57	58	52	"	52	1	..	..	2	..	1	1	..	..	1	1	4	4	6	10	2	1
Unknown.	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	....	1	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Defective Organization	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unknown.	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Deformity of Head	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	..	1	1	2	1	2	..	4	3	..	1	..	16	12	8	4	2	Delirium Tremens	....	..	..	..	..	2	1	1	3	2	3	1	1	1	..	..	..	1
Males	1	..	1	1	2	1	2	..	4	2	..	1	..	15	12	8	4	2	" "	....	..	..	..	..	2	..	1	3	2	3	1	1	1	..	..	..	1
Females...	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	....	....	" "	....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Delirium	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	1	..	..	1	..	..	..	..	..	..	2	....	....	....	....	Dementia, Chronic	....	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	....	Dementia, Paralytic	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Dysmenorrhea	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	3	3	1	2	1	2	5	3	3	5	1	..	30	35	33	29	25	Diabetes	....	3	5	1	1	1	2	2	..	..	..	1	3	1	3	4	3	..
Males	1	2	2	1	2	1	..	2	1	1	4	1	..	18	27	24	19	19	"	....	..	1	1	1	1	2	1	..	..	..	1	..	1	3	4	1	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	30 to 40.	35 to 45.	40 to 50.	45 to 55.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Dropsy of Kidneys	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	..	..	..	1	..	..	..	..	..	..	..	2	....	....	....	....	Dropsy of Limb	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	....	....	Dropsy of Liver	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	2	....	Dropsy, Ovarian	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	Dropsy, Uterine	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	6	13	17	15	23	24	32	17	27	17	29	21	2	243	217	210	246	246	Dropsy (Unspecified)	23	12	9	6	11	12	9	15	14	11	13	12	29	17	24	13	10	3
Males	3	7	10	11	6	11	12	7	10	9	16	9	1	112	98	86	103	110	" "	13	11	4	2	1	3	3	7	5	4	6	4	11	6	16	8	7	1
Females	3	6	7	4	17	13	20	10	17	8	13	12	1	131	119	124	143	136	" "	10	1	5	4	10	9	6	8	9	7	7	8	18	11	8	5	3	2
Males	..	..	..	1	..	4	3	1	2	2	1	2	..	16	20	....	....	....	Drowning, Accidental	3	..	3	4	2	1	2	1	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	....	....	" "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	2	..	2	5	7	14	8	17	7	7	4	18	..	91	68	87	107	96	Drowning	12	8	17	14	15	5	5	2	2	2	1	3	..	..	1	..	..	4
Males	2	..	1	5	7	12	7	17	7	6	3	16	..	83	62	76	91	76	"	10	8	15	14	13	5	4	1	2	2	1	3	..	..	1	..	..	4
Females	..	..	1	..	..	2	1	..	..	1	1	2	..	8	6	10	16	20	"	2	..	2	..	2	..	1	1	..	..	..	..	..	..	..	..	..	..
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	2	5	6	6	6	6	36	98	85	42	11	4	6	313	456	172	373	236	Dysentery	251	10	5	1	4	2	1	3	3	1	3	3	6	9	4	2	1	4
Males	1	2	5	2	3	2	19	46	49	23	4	2	4	162	246	86	197	136	"	133	5	3	..	3	1	1	2	2	1	2	1	3	2	1	..	..	2
Females	1	3	1	4	3	4	16	52	36	19	7	2	2	150	210	86	176	99	"	117	5	2	1	1	1	..	1	1	..	1	2	3	7	3	2	1	2
Unknown	..	..	..	..	..	..	1	..	..	..	..	..	..	1	....	....	....	1	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	1	..	..	3	..	..	1	1	..	..	..	6	....	1	1	....	Dysentery, Chronic	1	..	..	1	..	..	..	1	..	1	..	..	..	..	2	..	..	..
Total	1	2	1	3	1	..	1	3	1	4	..	4	..	21	16	8	25	7	Dyspepsia	3	2	1	..	2	..	..	2	..	2	..	2	1	2	3	1	..	..
Males	1	2	..	1	..	..	1	2	1	2	..	1	..	11	11	3	15	4	"	1	2	..	..	1	..	..	..	..	1	..	1	1	2	1	1	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Exposure	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Extra Uterine Pregnancy	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	3	3	4	3	..	2	1	2	1	2	2	5	1	29	21	....	....	....	Falling Tree	1	1	2	6	9	3	2	..	2	..	1	..	2	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Fatty Degeneration	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Feet, Disease of	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	Felon	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	"Female Pills"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	2	2	1	3	3	1	1	7	13	10	6	2	..	51	66	55	65	41	Fever, Bilious	24	1	2	1	3	1	3	3	3	..	4	1	1	..	2	1	1
Males	1	..	1	..	1	1	..	5	7	8	3	1	..	28	36	25	34	18	" "	12	1	1	1	1	1	1	1	2	..	3	1	..	..	2	1	..
Females	1	2	..	3	2	..	1	2	6	2	3	1	..	23	30	30	30	23	" "	12	..	1	..	2	..	2	2	1	..	1	..	1	..	..	..	1
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	" "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Fever, "Black"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Fever, Catarrhal	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	....	....	....	" "	....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	1	..	..	....	6	....	4	....	Fever, Congestive	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	1	..	..	2	..	..	..	1	..	..	1	..	..	5	3	....	4	....	" "	1	..	1	..	..	1	..	2	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Fever, Continued Relapsing	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	Fever, Continued	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	1	..	..	..	..	..	1	..	..	2	....	....	....	....	" "	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Total	..	1	..	..	..	1	..	1	..	..	..	..	..	3	5	3	....	....	Fever, Gastric	2	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	..	..	..	..	..	..	..	..	..	..	..	1	....	3	....	....	" "	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females...	25	30	24	24	22	12	12	13	14	4	5	6	..	191	52	1	....	....	Fever, Spinal	73	36	18	9	6	3	8	5	7	5	3	5	4	3	3	..	2	1
Total.....	1	9	13	10	11	6	5	4	3	1	1	2	..	66	109	16	8	5	Fever, Spotted	30	13	6	5	4	..	1	1	2	2	..	1	..	..	..	1	..	..
Males.....	..	4	7	5	8	3	4	1	2	....	1	1	..	35	70	6	4	3	" "	15	8	3	5	3	..	1	..	1	..	..	..	..	..	..	..	..	..
Females...	1	5	6	5	3	3	1	3	1	1	..	1	..	30	39	10	4	2	" "	15	5	3	....	1	..	..	1	1	2	..	1	..	..	..	1	..	..
Total.....	1	1	..	..	..	1	..	..	....	....	2	1	..	6	4	4	....	....	Fever Sore	....	..	..	1	1	..	..	..	..	1	..	1	1	1	..	..	..	..
Males.....	1	..	..	..	..	1	..	..	....	....	1	1	..	4	2	4	....	....	" "	....	..	..	....	1	..	..	..	..	1	..	1	1	..	..	..	..	..
Females...	..	1	..	..	..	..	..	..	....	....	1	..	..	2	2	....	....	....	" "	....	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Total.....	39	45	32	39	22	24	36	62	103	144	77	50	4	677	620	357	574	437	Fever, Typhoid	70	50	55	108	73	57	39	36	34	26	23	30	21	20	15	8	3	9
Males.....	23	22	17	24	12	14	16	37	56	83	45	34	2	385	340	192	270	228	" "	33	29	17	54	47	36	23	22	19	15	14	22	17	11	10	5	3	8
Females...	16	23	15	15	10	10	20	25	47	61	32	16	2	292	280	165	304	209	" "	37	21	38	54	26	21	16	14	15	11	9	8	4	9	5	3	..	1
Females...	..	..	..	..	..	..	..	..	....	....	..	..	..	....	1	....	....	....	Fever, Typhoid Rheumatic	....	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total.....	..	1	1	..	1	..	..	1	1	....	1	1	..	7	....	....	....	....	Fever, Typho-malarial	2	..	..	2	..	..	1	..	..	..	..	1	..	..	1	..	..	..	..
Males.....	..	..	..	..	..	..	..	1	....	1	..	..	2	....	....	....	....	....	" "	....	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Females...	..	1	1	..	1	..	..	1	....	....	..	1	..	5	....	....	....	....	" "	2	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..
Total.....	2	1	..	..	3	..	..	..	2	3	3	2	..	16	29	8	1	9	Fever, Typhus	2	2	1	2	2	1	..	2	..	1	1	..	..	2	..	..	..	..
Males.....	1	1	..	..	..	..	..	..	....	1	1	..	..	4	12	4	....	6	" "	....	1	..	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..
Females...	1	..	..	..	3	..	..	..	2	2	2	2	..	12	17	4	1	3	" "	2	1	1	1	2	..	..	2	..	..	1	..	..	2	..	..	..	..
Total.....	7	5	11	11	7	8	8	18	20	16	7	9	2	129	125	120	126	248	Fever (Unspecified)	66	4	5	9	9	4	4	2	6	3	3	2	4	2	1	3	1	1
Males.....	3	4	6	7	1	5	4	10	10	8	2	5	1	66	69	56	71	133	" "	36	1	3	4	3	..	..	1	4	2	2	2	3	1	..	2	1	1
Females...	4	1	5	4	6	3	4	8	10	8	5	4	1	63	56	62	55	115	" "	30	3	2	5	6	4	4	1	2	1	1	..	1	1	1	1	..	..
Unknown.	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	2	....	....	" "	....	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females...	..		..	..	..		..	..	..	..	..	1	..	1	....	....	....	....	Gall-stone, Passage of	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Males	..		..	..	..		..	..	..	..	..	..	..	....	....	1	....	....	Gall-stone	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..		..	..	..		..	..	..	..	..	..	..	1	1	....	2	....	"	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Males	..		..	..	..		..	..	..	..	..	..	..	....	1	....	....	....	Gangrene of Eye	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..		..	1	..		..	..	..	..	..	..	..	1	1	....	....	....	Gangrene in Feet	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Males	..		..	..	..		..	..	..	..	..	..	..	....	....	1	....	....	Gangrene in Leg	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..		..	..	..		..	..	..	..	..	..	..	....	1	....	....	....	" " "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..		..	..	..		..	..	..	..	..	..	..	....	....	1	....	....	Gangrene of Lungs	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..		..	..	..		..	..	..	..	..	..	..	....	....	1	....	....	Gangrene, Senile	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..		..	..	..		..	1	..	..	..	..	..	1	....	....	....	....	Gangrene, Dry	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Total	1		2	1	..		1	1	..	..	..	..	..	6	8	2	3	....	Gangrene	....	..	..	..	..	..	..	..	..	..	..	1	1	1	..	3	..
Males	1		1	1	..		..	..	..	..	..	..	..	3	8	1	3	....	"	....	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..
Females...	..		1	..	..		1	1	..	..	..	..	..	3	....	1	....	....	"	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	2	..
Females...	..		..	..	..		..	..	..	..	..	..	..	....	1	....	....	....	Glanders	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..		..	..	..		..	1	..	..	..	..	..	1	....	....	....	....	"Glands"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..		..	..	..		..	..	..	..	..	..	..	....	1	....	....	....	Goitre	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..		..	..	..		..	..	..	..	..	..	..	....	....	....	1	....	Gout	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	2		2	3	3		1	1	3	4	..	4	..	25	22	24	24	24	Gravel	1	..	..	..	..	..	..	..	1	..	2	1	2	2	5	7	4	..
Males	2		1	3	3		1	..	3	3	..	4	..	21	22	23	23	22	"	....	..	..	..	..	..	..	..	..	..	1	1	2	2	5	6	4	..
Females...	..		1	..	..		..	1	..	1	..	..	..	4	....	1	1	2	"	1	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	..	..
Total	..		1	..	1		1	..	1	2	..	..	..	7	23	12	21	14	Gun-shot	....	..	..	2	1	..	1	..	1	1	..	..	..	1	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females...	1	..	..	..	..	..	..	..	..	..	..	..	..	1	2	....	2	....	Heart, Palpitation of	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	....	....	Heart, Paralysis of	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Heart, Rupture of	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males.....	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	1	1	....	Heart, Valv. Disease of	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	1	..	1	....	2	....	....	" " " "	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Males.....	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Heat	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males.....	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	..	Hemorrhage from Bladder	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total.....	..	1	..	1	..	..	1	..	..	..	3	..	..	6	3	3	3	....	Hemorrhage of Bowels	..	..	..	..	..	..	1	1	..	1	1	1	..	..	..	1	..
Males.....	..	1	..	1	..	..	..	..	..	..	1	..	..	3	2	2	2	....	" " "	..	..	..	..	..	..	..	1	..	1	..	1	..	..	..	..	..
Females...	..	..	..	..	..	..	1	..	..	..	2	..	..	3	1	1	1	....	" " "	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Hemorrhage, Internal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males.....	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	Hemorrhage from Leg	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Hemorrhage of Liver	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males.....	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Hemorrhage from Nose	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females ..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	1	....	1	....	" " "	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	Hemorrhage, Puerperal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males.....	..	..	..	..	1	..	..	..	..	..	1	..	..	2	1	....	....	....	Hemorrhage of Stomach	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..
Females...	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	" " "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	..	1	..	..	..	..	..	..	..	..	..	..	1	5	2	1	1	Hemorrhage, Uterine	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Total.....	1	2	1	3	1	2	2	1	2	2	1	1	..	19	8	17	11	15	Hemorrhage	11	1	..	1	..	..	2	1	2	..	..	..	1	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Hydrophobia	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	....	....	Ice Water, Drinking of	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	..	..	2	..	..	..	..	2	5	....	....	....	Inanition	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	1	..	..	..	..	1	2	....	....	....	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	1	..	..	..	..	1	3	....	....	....	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	1	..	..	..	..	..	..	1	..	1	..	..	3	1	....	....	....	Indigestion	2	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Males	..	1	..	..	..	..	..	..	..	..	1	..	..	2	....	....	....	....	"	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	1	..	..	..	..	1	1	....	....	....	"	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Inervation	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Infanticide	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	3	8	3	4	3	2	4	5	4	3	4	12	1	56	79	98	37	49	Infantile	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	2	7	2	3	..	1	2	1	1	2	3	8	1	33	39	57	20	32	"	33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	1	1	1	1	3	1	2	4	3	1	1	4	..	23	40	40	17	14	"	23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	3	"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	2	1	4	5	2	1	1	5	2	4	4	2	..	33	36	16	....	....	Inflammation	14	1	1	1	1	2	3	3	2	1	..	2	..	..	..	1	..
Males	..	1	1	1	1	..	1	3	1	2	4	..	..	15	20	9	....	....	"	9	1	..	..	..	..	..	1	1	1	..	2	..	..	..	..	..
Females	2	..	3	4	1	1	..	2	1	2	..	2	..	18	16	7	....	....	"	5	..	1	1	1	2	3	2	1	..	..	..	..	..	..	1	..
Total	1	..	2	1	..	..	..	..	..	..	..	..	..	4	1	2	....	....	Influenza	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	1	1	..	..	..	..	..	..	..	..	..	3	....	....	....	....	"	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	1	..	..	..	..	..	..	..	..	..	..	1	1	2	....	....	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	1	....	Injury at Birth	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																				
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females	..	..	1	..	..	..	..	..	1	..	..	..	..	2	..	....	..	..	Laryngitis	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	....	..	..	Leg, Diseased	....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	..	..	Leg, Inflam. of	....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	..	..	" "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	1	..	..	1	..	2	..	....	..	..	Leg, Ulcer in	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..
Total	..	..	..	1	..	1	1	1	1	..	..	..	..	5	6	4	7	4	Lightning	....	1	1	1	..	1	..	..	..	..	..	..	..	1	..	..	..
Males	..	..	..	..	..	1	1	..	..	..	..	..	..	2	5	3	6	3	"	....	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	1	..	..	..	1	1	..	..	..	..	3	1	1	1	1	"	....	1	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	..	..	Limbs, Inflam. of	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	....	..	..	Liquor and Exposure to Cold	....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	4	4	4	5	10	7	10	9	10	14	7	9	..	93	83	67	72	47	Liver Disease	13	1	1	6	3	5	2	6	2	7	12	3	13	7	6	3	2	1
Males	1	2	3	3	6	6	7	4	3	6	3	5	..	49	45	42	40	30	" "	7	1	1	3	1	4	1	3	1	3	5	1	4	5	5	1	2	1
Females	3	2	1	2	4	1	3	5	7	8	4	4	..	44	38	25	32	17	" "	6	..	.	3	2	1	1	3	1	4	7	2	9	2	1	2	..	..
Total	..	..	1	..	..	..	1	1	..	..	..	1	..	4	6	1	5	1	Liver, Enlargement of	1	..	.	..	..	..	..	..	..	2	..	..	1	..	..	..	.	.
Males	..	..	1	..	.	..	..	1	..	..	..	..	..	2	3	1	1	..	" "	1	..	.	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	1	..	..	..	..	1	..	2	3	....	4	1	" "	....	..	.	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..
Males	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	....	..	..	Liver, Fatty Degen. of	....	..	.	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Total	..	..	1	1	2	..	1	1	2	..	1	..	1	10	11	10	6	5	Liver, Inflam. of	2	..	.	..	..	..	..	1	1	1	1	1	2	..	1	..	..	..
Males	..	..	1	..	..	..	1	1	1	..	1	..	..	5	7	7	1	2	" "	1	..	.	..	..	..	..	..	..	1	..	2	..	1	..	..	..
Females	..	..	..	1	2	..	..	..	1	..	..	..	1	5	4	3	5	3	" "	1	..	.	..	..	..	..	1	1	1	..	1	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	..	....	1	..	Liver, Chronic Inflam. of	....	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.														
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	-	1	--	1	--	1	1	--	1	2	--	--	--	7	12	2	1	2	Meningitis	1	1	1	1	--	1	--	--	--	1	--	1	--	--	--	--	--	-
Males	-	--	--	1	--	1	1	--	--	2	--	--	--	5	9	1	----	1	"	--	1	--	1	--	1	--	--	--	1	--	1	--	--	--	--	--	-
Females	-	1	--	--	--	--	--	--	1	--	--	--	--	2	3	1	1	1	"	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-
Males	-	--	--	--	--	--	--	--	--	--	--	--	--	--	1	----	----	----	Meningitis, Acute	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-
Total	7	25	35	29	12	10	7	7	4	2	3	4	--	145	79	2	1	----	Meningitis, Cerebro-spinal[a]	61	25	19	11	7	1	--	4	1	7	3	--	2	2	1	--	1	-
Males	4	15	21	19	6	4	6	4	3	2	2	3	--	89	41	1	1	----	" " "	41	16	10	7	4	--	--	1	1	3	3	--	1	1	1	--	--	-
Females	3	10	14	10	6	6	1	3	1	--	1	1	--	56	38	----	----	----	" " "	20	9	9	4	3	1	--	3	--	4	--	--	1	1	--	--	1	-
Unknown	-	--	--	--	--	--	--	--	--	--	--	--	--	----	----	1	----	----	" " "	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-
Females	-	--	--	--	--	--	--	--	--	--	--	--	--	----	----	1	----	----	Meningitis, Chronic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-
Total	7	29	33	25	19	12	10	8	5	7	2	6	--	166	47	2	1	6	Meningitis, Spinal[b]	70	24	22	8	12	1	4	5	1	5	5	3	2	--	1	1	--	2
Males	4	15	14	18	14	7	5	5	4	1	2	5	--	94	23	1	----	2	" "	35	15	18	2	7	1	2	3	--	2	5	1	--	--	1	1	--	1
Females	3	14	22	7	5	5	5	3	1	6	--	1	--	72	24	1	1	4	" "	35	9	4	6	5	--	2	2	1	3	--	2	2	--	--	--	--	1
Males	-	--	--	--	--	--	--	--	--	--	--	--	--	----	3	1	----	1	Meningitis, Tubercular	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-
Females	-	--	--	--	--	--	--	--	--	--	--	--	--	----	----	3	----	2	" "	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-
Females	-	--	--	--	--	--	--	--	--	--	--	--	--	----	----	1	----	----	Metro-peritonitis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-
Females	-	--	--	--	--	--	--	--	--	--	--	--	--	----	1	----	----	----	Milk Fever	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-
Females	--	--	--	1	--	--	--	--	--	--	--	--	--	1	3	1	2	----	Milk Leg	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	-
Total	1	--	--	--	--	1	--	1	1	--	--	--	--	4	----	----	----	----	Morphine	2	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	-
Males	1	--	--	--	--	1	--	1	--	--	--	--	--	3	----	----	----	----	"	2	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	-
Females	-	--	--	--	--	--	--	--	1	--	--	--	--	1	----	----	----	----	"	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	-
Males	--	--	--	--	--	--	--	--	--	--	--	--	--	----	----	----	1	5	Mortification	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	.	....	Otorrhea	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	.	....	Ovarian Disease	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	1	..	..	..	..	..	..	..	..	..	1	1	..	3	5	3	3	3	Ovarian Tumor	....	..	..	..	..	..	1	..	..	2	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	2	....	Ovariotomy	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	.	....	Overdose of Calomel	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	.	....	Overdose of Chloroform	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	2	1	....	" " "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	.	....	Overdose of Gelseminum	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	.	....	Overdose of Medicine	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	.	....	Overdose of Morphine	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	3	1	.	....	" " "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	.	....	Overdose of Hydrated Chloral	....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Total	..	..	..	1	..	..	..	1	..	1	..	..	..	3	1	....	.	....	Overdose of Opium	....	..	..	..	..	..	1	1	..	..	..	..	..	1	..	..	..
Males	..	..	..	1	..	..	..	1	..	..	..	..	..	2	....	....	.	....	" " "	....	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..
Females	..	..	..	..	..	..	..	..	..	1	..	..	..	1	1	....	.	....	" " "	....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	.	....	Overwork and Exposure	....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	.	....	"Paralysis of Brain"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	.	....	Paralysis of Insane, General	....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	3	....	Paralysis, General	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	2	....	" "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	1	..	1	....	....	.	....	Paralysis, Rheumatic	....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	1	..	2	2	2	3	..	2	2	1	1	1	..	17	23	14	20	16	Poison	8	..	1	2	..	2	1	..	..	1	..	..	1	..	..	..
Males	1	..	1	1	2	1	..	..	..	1	1	1	..	9	14	10	7	12	"	3	..	..	1	..	2	1	..	..	1	..	..	..	..	..	1	..	..
Females	..	..	1	1	..	2	..	2	2	..	..	..	..	8	9	4	13	4	"	5	..	1	1	..	..	..	..	..	..	..	1	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	Polypus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	1	1	3	..	2	3	1	3	1	1	..	..	16	18	12	19	2	Premature Birth	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	..	1	..	1	3	..	2	1	1	..	..	10	10	5	8	..	" "	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	1	2	..	1	..	1	1	..	..	..	..	6	8	7	11	2	" "	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	Prostration	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	1	..	..	..	..	..	..	1	1	1	..	..	Prostate, Disease of	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	Prostate, Enlargement of	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	Pulmonary Apoplexy	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	Purpura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	1	..	..	..	..	..	..	..	..	1	1	..	..	..	Pyæmia	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Total	..	2	1	..	..	..	1	..	1	..	..	..	..	5	8	2	1	3	Quinsy	3	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Males	..	1	..	..	..	..	1	..	1	..	..	..	..	3	6	2	1	1	"	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	1	1	..	..	..	..	..	..	..	..	..	..	2	2	..	..	2	"	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Females	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	..	1	..	Rachitis	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	2	2	8	3	4	6	3	2	6	7	5	4	1	53	39	21	20	19	Railroad Accident	1	2	1	8	8	6	8	3	3	4	2	1	2	..	..	1	1	12
Males	2	2	8	3	4	5	3	2	6	6	5	4	1	51	38	20	19	17	" "	1	2	1	8	8	6	7	3	3	4	2	..	2	..	..	1	1	12
Females	..	..	..	..	..	1	..	..	..	1	..	..	..	2	1	1	1	2	" "	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females	26	31	25	35	25	18	19	24	16	16	20	27	..	282	272	371	419	122	Scarlet Fever	166	74	26	8	2	2	2	..	..	1	..	..	..	..	..	..	1
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	" "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	2	1	1	..	..	..	..	1	..	..	..	..	5	4	....	....	....	Scarlet Rash	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	2	1	1	..	..	..	..	..	..	..	..	..	4	3	....	....	....	" "	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	1	..	..	..	..	1	1	....	....	....	" "	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	1	....	....	Scirrhosis	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Total	4	3	6	3	5	1	1	8	3	2	6	..	..	42	40	38	60	55	Scrofula	22	6	2	2	3	1	1	..	..	..	3	..	..	1	1	..	..	..
Males	3	..	3	3	2	..	1	5	1	2	3	..	..	23	28	16	33	32	"	13	4	..	1	2	..	..	..	..	2	..	..	..	1	..	..	..	..
Females	1	3	3	..	3	1	..	3	2	..	3	..	..	19	12	22	27	23	"	9	2	2	1	1	1	1	..	..	..	1	..	..	1	..	..	..	..
Males	..	1	..	..	..	..	..	..	..	..	..	..	..	1	....	1	1	1	Scurvy	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	1	....	....	Seasickness	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	....	....	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Self Abuse	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	1	....	....	"Shot Himself"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	12	18	13	10	11	8	8	1	..	1	2	6	..	90	302	73	9	42	Small-pox	19	10	10	11	16	12	2	2	..	5	..	..	2	..	..	..	..	1
Males	4	13	8	5	7	6	2	1	..	..	1	2	..	49	172	48	6	21	" "	5	4	3	5	12	10	1	1	..	5	..	..	2	..	..	..	..	1
Females	8	5	5	5	4	2	6	..	..	1	1	4	..	41	130	25	3	21	" "	14	6	7	6	4	2	1	1	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	....	....	Smothered in Sand	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Smothered	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	....	....	Snake Bite	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.												YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Stomach, Chronic Ulcer. of	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	..	..	1	1	..	..	3	2	1	1	1	..	11	13	14	16	11	Stomach Disease	3	..	..	1	1	..	..	..	..	..	1	3	..	1	..	1	..	..
Males	..	..	..	1	1	..	..	2	1	1	..	1	..	7	9	9	8	4	" "	3	..	..	..	..	..	..	..	..	..	..	2	..	1	..	1	..	..
Females	1	..	..	..	..	..	..	1	1	..	1	..	..	4	4	5	8	7	" "	....	..	..	1	1	..	..	..	..	..	1	1	..	..	..	..	..	..
Total	1	1	1	4	6	2	4	1	8	2	4	2	..	36	28	24	23	15	Stomach, Inflam. of	15	..	1	1	2	1	1	2	2	2	2	2	1	2	2	..	..	..
Males	..	1	1	1	3	..	2	..	4	1	2	..	..	15	10	9	11	5	" "	10	..	..	..	..	..	..	..	1	..	2	..	..	1	1	..	..	..
Females	1	..	..	3	3	2	2	1	4	1	2	2	..	21	18	15	12	10	" "	5	..	1	1	2	1	1	2	1	2	..	2	1	1	1	..	..	..
Total	1	2	..	1	..	1	1	1	..	..	..	1	..	8	4	2	3	1	Stomach, Ulceration of	1	..	..	..	1	1	..	1	..	1	..	..	2	1	..	..	..	..
Males	..	1	..	1	..	1	1	1	..	..	..	1	..	6	1	1	2	1	" "	1	..	..	..	..	..	..	1	..	1	..	..	2	1	..	..	..	..
Females	1	1	..	..	..	..	..	..	..	..	..	..	..	2	3	1	1	....	" "	....	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Stomatitis	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	Stone in Bladder	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	..	1	2	..	1	..	1	..	..	1	1	1	8	2	....	3	....	Strangulation	3	1	..	1	..	..	..	..	..	..	..	1	..	..	..	1	1
Males	..	..	..	2	..	1	..	1	..	..	1	1	1	7	....	....	3	....	"	2	1	..	1	..	..	..	..	..	..	..	1	..	..	..	1	1
Females	..	..	1	..	..	..	..	..	..	..	..	..	..	1	2	....	....	....	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	Stricture of the Œsophagus	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	1	....	Stricture of Urethra	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	....	....	Stricture	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	"Struck in the Abdomen"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	1	..	..	..	..	..	..	..	..	..	..	2	....	1	5	....	Suddenly	....	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	2	....	....	"	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1873.												Years.					CAUSES OF DEATH.	Ages in Periods of Years.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females..	1	1	4	1	...	2		...	2	1	...	2		15	8	12	9	11	Throat Disease	6	5	..	1	...	...	1	1	1	..	..	..	..	..	..	..	..	..
Females..	..	1	...	...	...	...		...	...	...	...	.		1	...	...	...	...	Throat Disease, Chronic	...	..	..	..	1	...	..	...	..	..	..	..	..	..	..	..	..	..
Males	..	...	...	...	...	...		...	...	...	...	.		....	1	...	...	...	Throat, Inflammation of	...	..	..	..	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Total.....	..	...	...	...	...	...		1	..	...	1	.		2	4	...	...	...	Throat, Putrid Sore	2	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Males	..	...	...	...	...	...		1	...	...	...	.		1	3	...	...	...	" " "	1	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Females..	..	...	...	...	...	...		...	...	...	1	.		1	1	...	...	...	" " "	1	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Males	..	...	...	...	...	...		...	...	...	...	.		....	1	...	...	...	Throat, Ulceration of	...	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Females..	..	...	...	...	...	...		...	...	...	...	.		....	....	....	1	...	" "	...	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Total.....	..	...	2	2	...	1		...	...	...	...	.		6	11	7	20	5	Thrush	5	..	..	...	1	...	..	...	..	..	..	..	..	..	..	..	..	..
Males	..	...	...	1	...	...		...	...	...	...	.		2	4	2	12	3	"	2	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Females..	..	...	2	1	...	1		...	...	...	...	.		4	7	5	8	2	"	3	..	..	...	1	...	..	...	..	..	..	..	..	..	..	..	..	..
Males	..	...	...	...	...	...		...	...	...	...	.		....	1	...	....	...	Tongue-tied	...	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Males	..	...	...	...	...	...		1	...	...	...	.		1	1	...	....	...	Trichiniasis	1	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Females..	..	...	...	...	...	...		...	...	...	...	.		....	1	...	....	...	"	...	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Males	..	...	...	...	...	...		...	...	...	...	.		....	1	...	....	...	Tumor, Abdominal	...	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Females..	..	...	...	...	1	...		...	1	...	...	.		2	....	....	....	....	" "	1	..	..	...	...	...	..	1	..	..	..	..	..	..	..	..	..	..
Total.....	..	...	...	...	...	...		1	...	...	...	2		4	....	....	....	....	Tumor on Back	3	..	..	...	1	...	..	...	..	..	..	..	..	..	..	..	..	..
Males	..	...	...	...	...	...		1	...	...	...	.		2	....	....	....	....	" " "	2	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..
Females..	..	...	...	...	...	...		...	...	...	...	2		2	....	....	....	....	" " "	1	..	..	...	1	...	..	...	..	..	..	..	..	..	..	..	..	..
Females..	..	...	...	...	1	...		...	...	...	...	.		1	1	2	....	....	Tumor in Bowels	...	..	..	...	...	...	..	...	..	..	..	..	..	1	..	..	..	..
Total.....	..	...	...	...	...	...		1	...	...	1	.		2	1	..	....	....	Tumor on Brain	2	..	..	...	...	...	..	...	..	..	..	..	..	..	..	..	..	..

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TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	MONTHS, 1873.													YEARS.					CAUSES OF DEATH.	AGES IN PERIODS OF YEARS.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1873.	1872.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females...	1	...	...	1	...		...	...	...	1	...	...	-	3	4	2	....	....	Tumor, Uterine.....	....	..	..	..	..	1	..	..	..	..	1	1	..	..	..	..	..	..
Total.....	..	1	1	1	3		1	1	1	3	2	...	-	15	4	13	11	17	Tumor (Unspecified).....	3	..	..	1	2	1	..	..	1	..	2	2	2	..	..	..	..	1
Males.....	..	...	...	...	2	..	...	1	...	1	2	...	-	6	1	4	4	4	" "	2	..	..	1	..	..	..	..	..	..	2	1	..	..	..	..	..	..
Females...	..	1	1	1	1	1	1	...	1	2	..	...	-	9	3	9	7	13	" "	1	..	..	..	2	1	..	..	1	..	..	1	2	..	..	..	..	1
Females ..	..	1	...	...	1	1	...	...	...	...	..	1	-	4	1	3	3	1	Turn of Life.....	....	..	..	..	..	..	..	..	1	2	..	..	1	..	..	..	..	..
Males.....	..	...	...	...	...	..	...	...	...	...	..	...	-	....	1	....	....	....	"Typho-malaria".....	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males.....	..	...	...	...	1	..	...	...	...	...	..	...	-	1	1	....	....	....	Ulcer on Neck.....	....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total.....	..	...	...	...	...	..	...	...	...	...	1	1	-	2	....	2	6	12	Ulcers (Unspecified).....	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males.....	..	...	...	...	...	..	...	...	...	...	..	1	-	1	....	2	3	7	" "	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	...	...	...	...	..	...	...	...	...	1	...	-	1	....	....	3	5	" "	....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total.....	82	108	130	119	103	13	113	170	159	140	95	142	15	1504	1366	1000	1206	1264	Unknown.....	1030	41	25	18	28	23	23	26	19	29	17	27	31	17	33	15	15	87
Males.....	40	56	73	66	53	58	60	87	80	80	56	77	10	796	730	559	643	655	"	562	24	13	6	12	8	10	9	8	13	7	14	20	10	20	8	10	42
Females...	42	52	66	52	50	54	59	82	79	60	38	63	5	702	627	425	548	590	"	463	17	12	12	16	15	13	17	11	16	10	13	11	7	13	7	5	44
Unknown.	..	...	...	1	...	1	...	1	...	...	1	2	-	6	9	16	15	19	"	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Males.....	..	...	...	...	...	..	...	...	...	...	..	...	-	....	....	1	....	....	Uræmia.....	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males.....	..	...	...	...	...	..	1	...	...	1	..	...	-	2	....	....	1	....	Urine, Retention of.....	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Males.....	..	...	...	...	...	..	...	...	...	...	..	...	-	....	1	....	....	....	Urine, Suppression of.....	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	...	...	...	...	..	...	...	...	...	..	...	-	....	1	....	....	....	" "	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females ..	..	...	...	...	...	..	...	...	...	...	..	...	-	....	1	2	3	7	Uterus, Disease of.....	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	1	2	...	2	2	...	1	...	...	1	..	3	-	12	9	6	9	4	Uterus, Inflam. of.....	....	..	..	1	3	3	2	2	1	..	..	..	..	..	..	..	..	..
Females...	..	...	...	...	...	..	...	...	...	...	..	...	-	....	1	....	....	....	Uterus, Rupture of.....	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females...	..	1	..	....	1	..	...	...	...	...	..	...	-	2	2	....	2	....	Uterus, Ulceration of..	....	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..

| | | |

EXHIBIT R.—*Deaths in Michigan in 1873, Compiled as Casualty.*

CASUALTY,—CAUSES AS RETURNED.	Deaths, 1873.
Total number tabulated as Casualty in Table XVII	222
Killed by hand car	1
Killed by threshing machine	1
Injury	4
Accidentally shot	12
Killed by a log	7
Killed	11
Died from hurt in mill	1
Fall in mine	1
Explosion in mine	1
Explosion of boiler	4
Accident [a]	36
Falling stone	1
Accidentally shot himself	5
Killed by a team	1
Accident in mine	15
Hurt	1
Killed in lumber camp	1
Hurt in breast in woods	1
Injuries caused by a fall [b]	28
Spinal injuries	1
Board from saw struck him in breast	1
Chain caught around his arm and dragged to death with oxen	1
Crushed to death by accident	1
Fall by mother	1
Killed in pine woods	1
Killed with load of saw logs in woods	1
Killed by falling bank of earth	1
Injuries received from a bull	1
Shot	1
Injuries received in logging	1
Killed,—run over by a wagon	1
Killed in mill	1
Killed in saw-mill	1
Thrown from a buggy	5
Kicked by a horse	9
Killed by circular saw	3
Explosion of lamp	1
Injured spine by fall from buggy	1
Fell under a loaded sleigh	1
Clothes took fire from tallow candle	1
Broke neck by a fall	1
Killed by wagon	
Injuries received in saw-mill	1
Team ran away and threw him out of buggy	1
Killed by falling lumber	1
Cattle ran away with him	1
Killed by horses	2
Killed by an explosion	1
Killed from load of hay	1
Thrown from horse	1
By horses running away	2
Thrown from roller and run over	1
Burning house	2
Fall from horse	3
Casualty	3
Killed by sawing machine	1
Broken hip by falling	1
Killed in his well	1
Accidentally killed by fall of a house	1
Accidentally killed by falling timber	2
Head crushed by a runaway team	1
Fell from load of hay and broke her neck	1
Caught in mill	1
Kerosene lamp explosion	1
Killed,—cause unknown	1
Kicked by a horse,—infl. lungs and chest	1
Killed in well	1
Killed by bursting of wood saw	1
Killed while coupling cars	1
Fell from buggy—intoxicated	1

[a] Includes Fatal Accident, Killed Accidentally, Accidentally Hurt, etc.
[b] Includes Accident from Falling, Killed by Falling, Fall from Wagon, In Barn, Down Stairs, From a Horse, From a Tree, From a Bridge, etc., etc.

EXHIBIT R.—CONTINUED.

CASUALTY,—CAUSES AS RETURNED.	Deaths, 1873.	CASUALTY,—CAUSES AS RETURNED.	Deaths, 1873.
Broken limb by a fall	1	Internal injuries,—thrown from a buggy	1
Killed by a pulley falling on him	1	Wagon run over chest	1
Accidental gun-shot wound	1	Accidental gun-shot through vitals	1
Crushed by a load of lumber	1	Thrown from wagon	2
Leg cut off with a scythe	1	Accidental injury of the head	1
Falling from balloon	1	Blown up in a steam mill	1
Accidental, from breach pin of gun blowing out	1	Crushed between R. R. cars	1
Spine injured by being thrown from buggy	1	Fell in cellar and broke his neck	1

Exhibit R shows the specified causes of the deaths tabulated in Table XVII. as "Casualty." The total number of deaths thus tabulated for 1873 is 222. The number tabulated for 1872 was 175. The largest number from any one specified cause in 1872 and in 1873 is from falling.

Two hundred and twenty-two violent deaths of this nature in Michigan in a single year! Probably most of them might have been prevented by the exercise of a little more caution; but in each case the victim may never have seen, or even heard of a death in that manner. If the publication of the specified causes of these deaths shall lead to the exercise of more caution, perhaps many lives may be saved.

Suicide.—There were thirty-nine deaths by suicide returned for 1873,—all the persons were white; 30 males, and 9 females; 21 married, 13 single, 4 widowed, and 1 whose conjugal condition was not stated.

Exhibit 9 is a new one, designed to show certain facts concerning these suicidal deaths. Of the males, 2 committed suicide by drowning, 8 by hanging, 3 by shooting, 2 by poison, and in 15 cases the means used were not stated; of the females, 3 committed suicide by hanging, 2 by poison, and in 4 cases the means were not stated. The largest number were returned as having occurred in December. It should be remembered, however, that larger proportions of the deaths which occur are returned for months near the close of the year. One object in arranging these deaths from suicide so they can be closely studied by months, etc., is that any relation which they may sustain to diseases of the brain, or to other diseases, may be better studied, that the causes which lead to such suffering may be learned, and the evils mitigated.

EXHIBIT 9.—*Certain Facts concerning Persons Returned as having Died by Suicide in Michigan during the Year 1873.*

DATE OF DEATH.		Age.	Condition.	Sex.	Color.	Occupation.	Nativity.	Means Used.
Month.	Day.							
January	15	63	Married	Male	White	Farmer	Ireland	Hanging.
February	28	43	Married	Male	White	Farmer	Germany	Hanging.
February	28	47	Married	Male	White	Brewer	Germany	Shot himself.
March	18	58	Widower	Male	White	Farmer	New York	Hanging.
March	21	63	Married	Female	White	Housekeeper	New York	Not given.
April	27	37	Married	Male	White	Shoemaker	Germany	Poison.
May	5	67	Married	Male	White	Farmer	Connecticut	Shooting.
May	17	54	Married	Male	White	Cooper	England	Poison.
June	4	73	Widower	Male	White	Laborer	Germany	Unknown.
June	8	63	Married	Female	White	Unknown	New York	Hanging.
June	10	30	Married	Male	White	Farmer	England	Hanging.
June	20	30	Married	Male	White	Farmer	England	Hanging.
July	2	21	Married	Female	White	Milliner	Michigan	Not given.
July	2	40	.....	Male	White	Farmer	Germany	Unknown.
July	6	59	Married	Female	White	Housekeeper	New York	Hanging. *
July	8	56	Married	Male	White	Stone-mason	Germany	Drowning.
July	..	69	Married	Male	White	Not given	Germany	Not given.
August	2	25	Single	Male	White	Wagon-maker	Michigan	Unknown.
August	10	30	Single	Male	White	Laborer	Germany	Pistol-shot.
August	16	74	Widower	Male	White	None	Germany	Unknown.
September	4	40	Married	Male	White	Farmer	Germany	Hanging.
September	8	17	Single	Female	White	Servant	Canada	Unknown.
September	15	71	Married	Male	White	Lumberman	New York	Unknown.
September	20	35	Married	Male	White	Merchant	Michigan	Hanging.
September	24	26	Single	Male	White	Bar-tender	Michigan	Unknown.
October	6	54	Married	Male	White	Farmer	New York	Drowning.
October	22	26	Single	Male	White	Laborer	Ohio	Unknown.
October	23	17	Single	Female	White	Unknown	New York	Poison.
October	29	62	Married	Male	White	Farmer	Ireland	Unknown.
October	29	31	Single	Male	White	Saloon-keeper	Ohio	Unknown.
November	16	29	Single	Male	White	Laborer	New York	Hanging.
December	1	19	Single	Male	White	Laborer	Michigan	Unknown.
December	4	65	Married	Male	White	Farmer	Michigan	Unknown.
December	8	39	Married	Female	White	Housekeeper	Ohio	Not given.
December	14	21	Single	Male	White	Farmer	Michigan	Unknown.
December	15	22	Single	Male	White	Brakeman	Michigan	Unknown.
December	18	20	Single	Female	White	School Teacher	New York	Poison.
December	31	21	Single	Male	White	Druggist	Detroit	Unknown.
Unknown	..	55	Widow	Female	White	Housekeeper	Unknown	Hanging.

* *"Said to be insane."*

EXHIBIT 9.—CONTINUED.—*Suicidal Deaths.*

OCCUPATIONS.	No.	OCCUPATIONS.	No.
Bar-tender	1	Merchant	1
Brakeman	1	"None"	1
Brewer	1	Saloon-keeper	1
Cooper	1	School Teacher	1
Druggist	1	Servant	1
Farmers	12	Shoemaker	1
Housekeepers	4	Stone-mason	1
Laborers	5	Unknown	3
Lumberman	1	Wagon-maker	1
Milliner	1	Total	39

NATIVITY.	No.	NATIVITY.	No.
Canada	1	Michigan	9
Connecticut	1	New York	9
England	3	Ohio	3
Germany	10	Unknown	1
Ireland	2	Total	39

MEANS USED.	NUMBER.		MEANS USED.	NUMBER.	
	Males.	Females.		Males.	Females.
Drowning	2	.....	Shooting	1	.....
Hanging [a]	8	3	Shot Himself	1	.....
Pistol-shot	1	.....	Unknown	15	4
Poison	2	2	Total	30	9

[a] 1 "Said to be Insane."

TABLE XVIII.—*Order of Succession of Fifteen Principal Causes of Death, exhibiting for each Specified Cause, by Sex, the Number of Deaths, and Per Cent. of Deaths from each Cause to Deaths from All Causes, for the Year ending December 31, 1873.*

Order.	Specified Causes,—1873.	Number of Deaths.			Per Cent. from Each Cause to Deaths from All Causes.		
		Total.	Males.	Females.	Total.	Males.	Females.
1	Consumption	1,447	671	776	10.15	8.77	11.78
2	Pneumonia	706	431	275	4.96	5.63	4.17
3	Fever, Typhoid	677	385	292	4.75	5.03	4.43
4	Scarlet Fever	573	291	282	4.02	3.80	4.28
5	Old Age	428	226	202	3.00	2.95	3.07
6	Spinal Fever	428	237	191	3.00	3.10	2.90
7	Diarrhea [a]	383	208	175	2.69	2.72	2.66
8	Brain, Inflammation of	333	195	138	2.34	2.55	2.09
9	Dysentery [a]	[b] 319	168	150	2.24	2.20	2.28
10	Heart Disease	315	173	142	2.21	2.26	2.15
11	Cholera Infantum	306	179	127	2.15	2.34	1.93
12	Bowels, Inflammation of	285	151	134	2.00	1.97	2.03
13	Childbirth	254	.....	254	1.78	.....	3.85
14	Measles	244	109	135	1.71	1.42	2.05
15	Dropsy	242	112	130	1.70	1.46	1.97
	Total	[b] 6,940	3,536	3,403	48.67	46.23	51.64
	All Causes	[c] 14,258	7,651	6,590	100.00	100.00	100.00

[a] Includes acute and chronic.
[b] Includes 1 unknown sex.
[c] Includes 17 unknown sex.

Table XVIII. shows the number of deaths returned as having been caused by the fifteen principal causes of death in Michigan in 1873. This table should be compared with Exhibit 8, page 173. By this table it may be seen that a little less than one-half of the deaths in 1873 were caused by these fifteen causes. In 1872 the proportion was slightly greater. The proportion of deaths from Consumption has been constantly decreasing since 1869 as shown by the corresponding tables for each year; in 1869 the proportion was 13.48; in 1870 it was 13.47; in 1871, 13.39; in 1872, 10.97; and in 1873, 10.15. The proportion of deaths from Pneumonia has been increasing since 1870, as shown by these tables as follows: in 1870 the proportion of deaths from Pneumonia was 3.49; in 1871 it was 4.53; in 1872, 4.79; and in 1873, 4.96.

The similar table for 1872 included two diseases that are not in the table for 1873, namely: Small-pox, 302 deaths, and Diphtheria, 192 deaths; and the table for 1873 includes two diseases that are not in the table for 1872, namely: Spinal Fever and Measles. The general order, however, for the two years, is quite similar.

Order.	Year Ending April 5, 1868.	From April 5 to Dec. 31, 1868.	1869.		1870.		1871. [a]		1872.		1873.	
1	Consumption	Consumption	Consumption	1,233	Consumption	1,451	Consumption	1,303	Consumption	1,467	Consumption	1,447
2	Typhoid Fever	Infantile	Typhoid Fever	437	Scarlet Fever	852	Scarlet Fever	696	Pneumonia	641	Pneumonia	706
3	Pneumonia	Typhoid Fever	Pneumonia	427	Typhoid Fever	574	Pneumonia	441	Typhoid Fever	620	Typhoid Fever	677
4	Dysentery	Dysentery	Old Age	310	Diarrhea	407	Old Age	372	Scarlet Fever	561	Scarlet Fever	573
5	Old Age	Pneumonia	Diarrhea	295	Pneumonia	376	Typhoid Fever	357	Dysentery	456	Old Age	428
6	Dropsy	Diarrhea	Scarlet Fever	252	Dysentery	374	Casualty	246	Diarrhea	437	Spinal Fever	428
7	Heart Disease	Old Age	Heart Disease	252	Old Age	313	Convulsions & Fits	237	Old Age	400	Diarrhea	356
8	Casualty	Remittent Fever	Fever	248	Convulsions & Fits	281	Heart Disease	230	Cholera Infantum	394	Brain, Infl. of	333
9	Intermittent Fev.	Brain, Infl. of [b]	Dropsy	246	Heart Disease	258	Diarrhea	216	Brain, Infl. of	330	Heart Disease	315
10	Brain Disease	Convulsions & Fits	Dysentery	236	Dropsy	246	Brain, Infl. of	215	Convulsions & Fits	315	Dysentery	313
11	Diarrhea	Casualty	Brain, Infl. of [b]	226	Brain, Infl. of [b]	233	Apoplexy & Paral.	214	Small-pox	302	Cholera Infantum	306
12	Convulsions & Fits	Heart Disease	Convulsions & Fits	222	Brain Disease	214	Dropsy	210	Heart Disease	301	Convulsions & Fits	306
13	Inflammation	Dropsy	Brain Disease	204	Bowel, Infl. of [c]	187	Bowels, Infl. of	184	Bowels, Infl. of	234	Bowels, Infl. of	285
14	Apoplexy & Paral.	Whooping-cough	Apoplexy & Paral.	185	Cholera Infantum	181	Brain Disease	173	Apoplexy & Paral.	225	Childbirth	254
15	Croup	Apoplexy & Paral.	Casualty	176	Casualty	174	Dysentery	173	Childbirth	218	Apoplexy & Paral.	251

[a] This is somewhat different from the similar Exhibit in Report for 1871, because Convulsions and Fits are here combined, as are also Apoplexy and Paralysis changing the order of succession.
[b] "Cephalitis" in Reports previous to 1871.
[c] "Enteritis" in Reports previous to 1871.

TABLE XIX.—*Deaths from Ten Specified Causes during the Year 1873, Exhibiting the Number of each Sex, Total Number in each Month, and at Different Periods of Age.*

SEX, MONTHS, AND AGES.		CAUSES OF DEATH, 1873.									
		Cancer.	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whooping-cough.
SEX.	Total	171	333	170	356	217	313	244	573	677	206
	Males	75	195	101	189	115	162	109	291	385	105
	Females	96	138	69	167	102	150	135	282	292	101
	Unknown	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
MONTHS.	January	5	23	16	8	14	2	3	48	39	6
	February	11	19	18	5	12	5	6	54	45	10
	March	19	33	18	7	26	6	15	50	32	8
	April	10	23	13	4	16	6	31	56	39	8
	May	16	28	3	18	10	6	56	49	22	16
	June	16	23	12	20	14	6	40	36	24	13
	July	16	37	6	63	18	36	29	41	36	26
	August	17	48	7	100	9	98	25	41	62	30
	September	20	38	15	64	19	85	16	31	103	25
	October	13	24	16	41	29	42	9	37	144	20
	November	14	17	19	16	22	11	7	59	77	7
	December	14	20	27	10	27	4	7	62	50	14
	Unknown	.....	.....	.....	.....	1	6	.....	.....	4	3
	Av. Month*	14.25	27.75	14.17	29.67	18.00	25.58	20.33	47.75	56.08	16.92
AGES.	Under 5	7	202	147	322	111	251	165	361	70	193
	5 to 10	1	31	21	10	73	10	30	142	50	7
	10 to 15	.....	22	.....	5	19	5	11	46	55	2
	15 to 20	.....	17	.....	.....	4	1	13	12	108	.....
	20 to 25	3	15	.....	1	4	4	4	2	73	.....
	25 to 30	4	4	.....	.....	.....	2	3	3	57	.....
	30 to 35	2	3	.....	4	.....	1	5	2	39	.....
	35 to 40	11	4	.....	.....	.....	3	3	.....	36	.....
	40 to 45	14	4	.....	2	1	3	2	.....	34	.....
	45 to 50	9	6	.....	2	.....	1	.....	2	26	.....
	50 to 55	24	6	.....	.....	2	3	1	1	23	.....
	55 to 60	17	5	.....	.....	1	3	3	.....	30	.....
	60 to 65	22	2	.....	2	1	6	1	.....	21	.....
	65 to 70	26	4	.....	2	.....	9	.....	.....	20	.....
	70 to 75	12	.....	.....	1	.....	4	.....	.....	15	.....
	75 to 80	7	2	.....	2	.....	2	.....	.....	8	.....
	80 and over	7	1	.....	.....	.....	1	.....	.....	3	.....
	Unknown	5	5	2	3	1	4	3	2	9	4

* Excluding deaths in unknown month.

TABLE XX.—*Per Cent. of Deaths during the Year ending December 31, 1873, from each of Ten Specified Causes to Deaths from all Causes; and Per cent. of Each Sex, of Deaths in Each Month, and at Different Periods of Life, to Total Deaths from Each Specified Cause.*

SEX, MONTHS, AND AGES.	CAUSES OF DEATH, 1873,—PER CENT.									
	Cancer.	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whooping-cough.
Per Ct. of All Causes	1.20	2.34	1.19	2.50	1.52	2.20	1.71	4.02	4.75	1.44
SEX. Males	43.86	58.56	59.41	53.09	53.00	51.76	44.67	56.79	56.87	50.97
SEX. Females	56.14	41.44	40.59	46.91	47.00	47.92	55.33	49.21	43.13	49.03
SEX. Unknown	.....	.....	.....	.....	.....	.32	.....	.....	.....	.....
MONTHS. January	2.92	6.91	9.41	2.25	6.45	.64	1.23	8.38	5.76	2.91
MONTHS. February	6.43	5.70	10.59	1.40	5.53	1.60	2.46	9.42	6.65	4.85
MONTHS. March	11.11	9.91	10.59	1.97	11.98	1.92	6.15	10.30	4.73	3.88
MONTHS. April	5.85	6.91	7.65	1.12	7.37	1.92	12.70	9.77	5.76	3.88
MONTHS. May	9.36	8.41	1.76	5.05	4.61	1.92	22.95	8.55	3.25	7.77
MONTHS. June	9.36	6.91	7.06	5.62	6.45	1.92	16.39	6.28	3.54	6.31
MONTHS. July	9.36	11.11	3.53	17.70	8.29	11.50	11.88	7.15	5.32	12.62
MONTHS. August	9.94	14.40	4.12	28.09	4.15	31.31	10.25	7.16	9.16	24.27
MONTHS. September	11.69	11.41	8.82	17.98	8.76	27.15	6.56	5.41	15.21	12.14
MONTHS. October	7.60	7.21	9.41	11.52	13.36	13.42	3.69	6.46	21.27	9.71
MONTHS. November	8.19	5.11	11.18	4.49	10.14	3.51	2.87	10.30	11.37	3.40
MONTHS. December	8.19	6.01	15.88	2.81	12.44	1.28	2.87	10.82	7.39	6.80
MONTHS. Unknown	.....	.....	.....	.....	.46	1.91	.....	.....	.59	1.46
MONTHS. Av. Month *	8.33	8.33	8.33	8.33	8.30	8.17	8.33	8.33	8.28	8.21
AGES. Under 5	4.09	60.66	86.47	90.45	51.15	80.19	67.62	63.00	10.34	93.69
AGES. 5 to 10	.58	9.31	12.35	2.81	33.64	3.19	12.29	24.78	7.39	3.40
AGES. 10 to 15	.....	6.61	.....	1.40	8.76	1.60	4.51	8.03	8.12	.97
AGES. 15 to 20	.....	5.11	.....	.....	1.84	.32	5.33	2.09	15.95	.....
AGES. 20 to 25	1.75	4.50	.....	.28	1.84	1.28	1.64	.35	10.78	.....
AGES. 25 to 30	2.34	1.20	.....	.....	.....	.64	1.23	.52	8.42	.....
AGES. 30 to 35	1.17	.90	.....	1.12	.....	.32	2.05	.35	5.76	.....
AGES. 35 to 40	6.43	1.20	.....	.....	.....	.96	1.23	.....	5.32	.....
AGES. 40 to 45	8.19	1.20	.....	.56	.46	.96	.82	.....	5.02	.....
AGES. 45 to 50	5.26	1.80	.....	.56	.....	.32	.....	.35	3.84	.....
AGES. 50 to 55	14.04	1.80	.....	.....	.92	.96	.41	.17	3.40	.....
AGES. 55 to 60	9.94	1.50	.....	.....	.46	.96	1.23	.....	4.43	.....
AGES. 60 to 65	12.87	.60	.....	.56	.46	1.91	.41	.....	3.10	.....
AGES. 65 to 70	15.20	1.20	.....	.56	.....	2.87	.....	.....	2.95	.....
AGES. 70 to 75	7.02	.....	.....	.28	.....	1.28	.....	.....	2.21	.....
AGES. 75 to 80	4.09	.60	.....	.56	.....	.64	.....	.....	1.18	.....
AGES. 80 and over	4.09	.30	.....	.....	.....	.32	.....	.....	.44	.....
AGES. Unknown	2.92	1.50	1.18	.84	.46	1.28	1.23	.35	1.33	1.94

*Excluding deaths in unknown month.

Cancer.—The total number of deaths returned as having been caused by Cancer in 1873 was 171,—75 of males and 96 of females. Of these deaths, 45 were reported to be caused by Cancer of the Stomach,—25 males and 20 females. Cancer of the Breast is reported to have caused the death of 1 male and 13 females. In 1872, Cancer is reported to have caused 130 deaths,—56 males and 74 females; and in 1871 the number was 105,—48 males and 57 females. The part affected by Cancer is stated in a larger proportion of cases for 1873 than for 1872. Out of the 171 cases in 1873, the part affected was stated in 96 cases, as shown in Exhibit S. It is much to be regretted that the part affected by the disease is not more generally stated in the returns; as valuable aid, in the study of the cause and prevention of the disease, might be gained by an exact knowledge of the facts of location, etc., which might easily be returned. By Exhibit S, it seems that the stomach was the part most frequently affected by Cancer, in both sexes, in 1873. Next to this, Cancer of Breast is shown by the returns to cause the greatest number of deaths among females.

EXHIBIT S.—*Deaths from Cancer in Michigan, during the Year 1873, of those cases in which the part diseased was stated.*

AS RETURNED.	Males.	Females.	AS RETURNED.	Males.	Females.
Cancer of Stomach	25	20	Cancer on Foot	2	.....
Cancer of Mouth	2	1	Cancer in Glands	.....	1
Cancer on Side	.....	1	Cancer in Body	1	2
Cancer in Breast	1	13	Bone Cancer	1	.....
Cancer of Womb	.....	4	Internal Cancer	.....	1
Cancer of Bowels	1	3	Malignant Cancer	.....	1
Cancer on Face	4	1	Rose Cancer	.....	1
Cancer in Chest	2	.....	Choking Cancer	1	.....
Cancer in Throat	2	1	Total Specified	46	50
Cancer on Head	1	.....	Cancer (Unspecified)	29	46
Cancer of Tongue	1	.....			
Cancer on Lip	2	.....	Aggregate	75	96

Cephalitis.—The number of deaths returned as having been caused by Cephalitis in 1873 is 333,—three more than for 1872, although the per cent. of All Causes is less than in 1872.

The proportion of males in 1873 is greater than in 1872, and greater in 1872 than in 1871. The largest per cent. for any month is shown for August of each year, and more than half of the deaths from this disease were of those under five years of age. The month of 1873 showing the smallest proportion of deaths from this disease was November. The proportion under five years of age has been constantly decreasing since 1871.

Croup.—The number of deaths from Croup, according to the returns, has been constantly increasing since 1870. In 1870 the number was 127; in 1871 it was 153; in 1872, 162; and in 1873, 170. Each year shows an excess of males. The largest per cent. in any month was in December for each of the years 1870–1873, and a very large proportion were of those under five years of

age, being, for 1870, 88.18; for 1871, 88.23; for 1872, 86.42; and for 1873, 86.47 per cent. of all the deaths from this disease. In 1873, May shows the smallest per cent. of the months, and no deaths from this disease are returned of persons as old as ten years.

Exhibit K contains meteorological data in connection with deaths from Croup. The belief of the compiler that dryness and coldness of the air inhaled have a causal relation to deaths from croup, seems to be again supported by the evidence in Exhibit K, though it is well to notice the fact that there may be other relations as close as is this; thus, by studying the columns for Ozone, it will be seen that for 1873 there were only two exceptions (September and May) to the proposition that, by the day observations, the ozone was found in *greater* than average amount in months when *more* than the average number of deaths occurred from Croup, and in *less* than the average amount in months when *less* than the average number of deaths occurred; and, by the night observations, there was only one exception (September) to such proposition as the above; that is to say, the proposition is true, in this instance, in eleven cases out of twelve.

It will be seen that there were only two exceptions (September and April) to the proposition that the air was *colder* than the average in months when the *greatest* number of deaths from croup occurred, and *warmer* than the average in months in which *less* than the average number of deaths occurred. So far as this exhibit is concerned, the evidence is as strong in favor of the view that the coldness of the air inhaled is the cause of croup, as it is in favor of the view that it is the dryness of the air that causes the disease or the deaths therefrom; and the evidence as to the closeness of the relation which ozone has to deaths from croup, is even stronger, though this was not the case in the Exhibit for the preceding year. Dryness of the air is so necessarily connected with coldness of the air that it is exceedingly difficult to separate the effects of temperature from those of humidity. So far as relates to the prevention of the disease, perhaps, though desirable, it is not essential to do so, because the preventive measures will need to include warmth of air inhaled in order to secure its humidity, absolutely, though its relative humidity might be otherwise secured.

The positions which the exceptional months occupy in the exhibit are very significant. It will be seen that in the column for temperature, and in the one for weight of vapor inhaled, the two exceptions are immediately on either side of the average line, so that only a little change would be required to throw them over the line and do away with the exception. The same is true of the column for ozone, by the night observations.

In each succeeding year the evidence continues, that these meteorological conditions bear nearly a uniform relation to the deaths from croup. It indicates that deaths from croup may in great part be prevented, by securing to those in danger therefrom such an atmosphere to breathe as shall be warm, moist, and unirritating. The opposite conditions are those to be avoided; and it is possible it may be found that even after an unavoidable exposure, the securing of the above mentioned favorable conditions may prevent death or even the occurrence of the disease.

The foregoing is written from the standpoint of a supposition that Croup is not a specific contagious disease—dependent upon germs, and that the relation to it of meteorological conditions is direct. There is at least one other standpoint from which these conditions would only appear to have an incidental and not a causal relation. If Croup is a specific contagious or infectious disease,

dependent upon the multiplication of germs under favoring conditions, and if, as seems to be true of small-pox, a cold, dry atmosphere favors the existence of the germs, and a warm, moist atmosphere tends to destroy them, then the indication for the prevention of the disease would be to avoid sources of contagion or infection, especially in cold dry weather.

EXHIBIT K.—*Deaths in Michigan from Croup, by Months, during the Year 1873, and some Meteorological Conditions existing at the same time.*

Months in Order by Number of Deaths from Croup, Greatest Number First.	Deaths.		Temperature,-Fahr.: Mean of three Daily Observations, — at 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc.,— Monthly Averages.						Ozone,—Relative. Maximum=10.		Barometer Reduced to 32° Fahrenheit—Average.
			Average Range.											
	Number.	Per Cent. of Total.	Daily.	From Day to Day,—2 P. M. to 2 P. M.	Temperature.	Rain-fall in Inches.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours.[b]	Weight, in Troy Oz., of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.[c]	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	
Year, 1873....	[d] 170	100.00	14.37	17.67	44.54°	31.745	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
More than the Average No. of Deaths. Dec.....	27	15.88	8.35	12.16	29.54°	3.020	82	.152	1.82	1.14	10.54	4.97	5.89	28.929
Nov.....	19	11.18	10.23	12.10	28.49	2.026	81	.144	1.73	1.08	10.60	4.39	5.47	28.883
Feb.....	18	10.59	14.61	18.71	19.10	.770	91	.117	1.43	.89	10.79	4.21	5.93	28.847
March...	18	10.59	14.16	16.61	28.30	1.730	71	.127	1.52	.95	10.73	4.09	5.80	28.852
Jan.....	16	9.41	12.10	15.81	15.87	2.980	83	.092	1.14	.71	10.97	5.06	6.32	28.873
Oct.....	16	9.41	17.16	20.65	44.68	1.914	80	.253	2.92	1.82	9.86	4.52	4.69	28.917
Sept.....	15	8.82	16.73	21.60	57.38	3.499	84	.398	4.50	[e] 2.81	8.87	2.30	4.27	28.928
Monthly Av.	14.17	8.33	14.37	17.67	44.54	2.645	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
Less than the Av. No. of Deaths. April....	13	7.65	12.23	15.93	43.17	3.876	80	.233	2.71	[e] 1.07	10.61	3.76	4.27	28.796
June....	12	7.06	18.30	21.27	70.60	2.956	71	.532	5.85	3.66	8.02	3.26	2.66	28.840
August..	7	4.12	18.55	21.32	69.49	.796	81	.570	6.29	3.93	7.75	3.55	2.65	28.927
July.....	6	3.53	15.35	18.68	70.82	5.124	78	.588	6.45	4.03	7.65	3.59	3.06	28.914
May.....	3	1.76	14.61	17.16	56.98	3.054	75	.355	4.00	2.50	9.18	4.58	4.59	28.826

[a] Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated.)

[b] Calculated for 18 respirations per minute, of 20 cubic inches of air each.

[c] Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

[d] Includes 6 membranous croup.

[e] Exception to the proposition that *more* than an average number of deaths from Croup occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*. It should be borne in mind that probably a *less* proportion of the deaths were returned for months in early part of the year.

NOTE.—The meteorological data for Exhibits K, L, M, O, P, U, W, X, Y, 10, and 20, and Table XXX. were obtained from the Report of the State Board of Agriculture for the year 1873, and are results of observations by Prof. R. C.

Kedzie, M. D., at the Agricultural College, near Lansing. The calculations of Range of Temperature, and Weights of Vapor, have been made in this State Department.

The deaths tabulated in the exhibits and tables referred to above were returned as having occurred throughout the State, and it seems proper to compare these deaths by months with the average meteorological conditions throughout the State. The Agricultural College near Lansing, where the observations were made for the data included in these exhibits and tables, is not far from the center of the population represented by the deaths tabulated, and there are other reasons for the belief that the meteorological conditions there are sufficiently near an average for the State to make these comparisons valuable. It is not claimed, however, that a comparison for a single year is conclusive. Comparisons for a series of years are needed in order to eliminate accidental coincidences.]

Croup and Diphtheria.—In accordance with previous custom, Exhibit L has been prepared, combining the deaths from these two diseases for study in connection with the meteorological conditions by months. It will be seen that the relations to meteorological conditions are not as close as when croup is separated from Diphtheria. The same has been found true in previous years, and the relations of diphtheria to the meteorological conditions here tabulated are not as close as are those of croup. This may be seen by comparing Exhibits K and M, in this and in preceding Reports. Diphtheria is now believed to be a communicable disease, and its relations to temperature and humidity of the atmosphere, though in some degree direct, because an irritated condition of the throat is quite likely to increase the liability to take the disease, are evidently more indirect than are the relations of croup to such conditions, being probably in some degree at least, such as have to do with the stability or instability of the germs of the disease, as suggested in the remarks on croup.

Meteorological conditions probably sustain incidental relations to diphtheria, as well as to other communicable diseases, such as that the seasons of the year control many of the movements of the people, some of these being very important in this connection, as, for instance, the beginning of schools in the autumn months, when great numbers of children are brought closely together, often in rooms poorly ventilated or not ventilated at all, the childrens' outer clothing all hung in contact in an unventilated closet, and many of their throats in an irritated condition by unusual exposure to cold dry air. Under such circumstances the conditions are extremely favorable to the spread of communicable diseases affecting the throat or air passages.

Diphtheria.—In 1870 the number of deaths returned from Diphtheria was 121; in 1871 it was 121; in 1872, 192; and in 1873, 217. Thus it appears that the number has been increasing since 1871. The per cent. which the deaths from Diphtheria are of the deaths from all causes has been constantly increasing since 1870. In each of the years 1870–1872 there was an excess of deaths of females from this disease, but in 1873 the excess was of males. In 1870 the largest proportion occurred in October; in 1871 the largest proportion occurred in September; in 1872, in November; and in 1873, in October. Over half of the number of persons who died from this disease were under five years of age, for each year except for 1872, when the per cent. was 48.96. In the paragraph relating to *croup and diphtheria*, it was suggested that the occurrence of so large a proportion of the deaths from diphtheria in the months of September, October, and November might have some relation to the fact that

EXHIBIT L.—*Deaths in Michigan from Croup and Diphtheria, by Months, during the Year 1873, and some Meteorological Conditions existing at the same time.—(See note and remarks on pages 256–7.)*

Months in Order by Number of Deaths from Croup and Diphtheria, Greatest First.	Deaths.		Temperature,-Fahr.; Mean of three Daily Observat'ns,—7 A.M., 2 P. M., and 9 P. M.			Humidity of Atmosphere Etc.,—Monthly Averages.					Ozone,—Relative. Maximum = 10.		Barometer Reduced to 32° Fahrenheit—Average.
			Average Range.										
	Number.	Per Cent. of Total.	Daily.	From Day to Day,—2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours, in excess of vapor inhaled.[a]	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	
Year, 1873	[b] 386	100.00	14.37°	17.67°	44.54°	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
More than the Average No. of Deaths. December	54	13.99	8.35°	12.16°	29.54°	82	.152	1.82	1.14	10.54	4.97	5.89	28.929
October	45	11.66	17.16	20.65	[c]44.68	80	.253	2.92	1.82	9.86	4.52	4.69	28.917
March	44	11.40	14.16	16.61	28.30	71	.127	1.52	.95	10.73	4.09	5.80	28.852
November	41	10.62	10.23	12.10	28.49	81	.144	1.73	1.08	10.60	4.30	5.47	28.833
September	34	8.81	16.73	21.60	[c]57.38	84	.398	4.50	[d] 2.81	8.87	2.30	4.27	28.928
Average	32.16	8.33	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
Less than the Average No. of Deaths. January	30	7.77	12.10	15.81	[c]15.87	83	.092	1.14	[d] .71	10.97	5.06	6.32	28.873
February	30	7.77	14.61	18.71	[c]19.10	91	.117	1.43	[d] .89	10.79	4.21	5.93	28.847
April	29	7.51	12.23	15.93	[c]43.17	80	.233	2.71	[d] 1.07	10.61	3.76	4.27	28.798
June	26	6.74	18.30	21.27	70.60	71	.532	5.85	3.66	8.02	3.26	2.66	28.840
July	24	6.22	15.35	18.68	70.82	78	.588	6.45	4.03	7.65	3.59	3.06	28.914
August	16	4.15	18.55	21.32	69.49	81	.570	6.29	3.93	7.75	3.55	2.65	28.927
May	13	3.37	14.61	17.16	56.98	75	.355	4.00	2.50	9.18	4.58	4.59	28.826

[a] See foot-notes to Exhibit K, page 256.
[b] One death in unknown month excluded.
[c] Exceptions to the proposition that *more* than an average number of deaths from croup and diphtheria occurred in months in which the temperature was *less* than the average, and *vice versa*.
[d] Exceptions to the proposition that *more* than an average number of deaths from croup and diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*.

the public schools quite generally begin about that time, it being remembered that diphtheria is believed to be a communicable disease. The fact that about half of the deaths from diphtheria are of children under five years of age may at first thought appear to negative such suggestion, but it does not seem that it does so necessarily, because the death-rate may be much greater among children under five years of age, and many older children may contract the disease and recover, carrying the disease to their homes where its effects may be most fatal among the younger children. These statistics deal only with the deaths. We must look elsewhere for the statistics of the sickness, and it may be that reports to the State Board of Health may supply evidence on this point.

EXHIBIT M.—*Deaths in Michigan from Diphtheria, by Months, during the Year 1873, and some Meteorological Conditions existing at the same time.—(See note on pages 256–7.)*

	Months in Order by Number of Deaths from Diphtheria, Greatest First.	Deaths. Number.	Deaths. Per Cent. of Total.	Temperature,—Fahr.; Mean of three Daily Observations,—7 A.M., 2 P.M., and 9 P.M. Average Range. Daily.	Average Range. From Day to Day,—2 P.M. to 2 P.M.	Temperature.	Humidity of Atmosphere, etc.,—Monthly Averages. Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages, in 24 hours, in excess of vapor inhaled.[a]	Ozone,—Relative. Maximum = 10. Day,—7 A.M. to 2 P.M.	Ozone,—Relative. Maximum = 10. Night,—9 P.M. to 7 A.M.	Barometer Reduced to 32° Fahr.—Average.
	Year, 1873.....	[b] 216	100.00	14.37°	17.67°	44.54°	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
More than the Average No. of Deaths.	October...	29	13.43	17.16°	20.65°	[c] 44.68°	80	.253	2.92	1.82	9.86	4.52	4.69	28.917
	December.	27	12.50	8.35	12.16	29.54	82	1.52	1.82	1.14	10.54	4.97	5.89	28.929
	March.....	26	12.04	14.16	16.61	28.30	71	.127	1.52	.95	10.73	4.09	5.80	28.852
	November.	22	10.19	10.23	12.10	28.49	81	.144	1.73	1.08	10.60	4.30	5.47	28.833
	September	19	8.80	16.73	21.60	[c] 57.58	84	.398	4.50	[d] 2.81	8.87	2.30	4.27	28.928
Average.....		18	8.33	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
Less than the Average No. of Deaths.	July.....	18	8.33	15.35	18.68	70.82	78	.588	6.45	4.03	7.65	3.59	3.06	28.914
	April.....	16	7.41	12.23	15.93	[c] 43.17	80	.233	2.71	[d] 1.07	10.61	3.76	4.27	28.798
	January...	14	6.48	12.10	15.81	[c] 15.87	83	.092	1.14	[d] .71	10.97	5.06	6.32	28.873
	June.....	14	6.48	18.30	21.27	70.60	71	.532	5.85	3.66	8.02	3.26	2.66	28.840
	February..	12	5.56	14.61	18.71	[c] 19.10	91	.117	1.43	[d] .89	10.79	4.21	5.93	28.847
	May.....	10	4.63	14.61	17.16	56.98	75	.355	4.00	2.50	9.18	4.58	4.59	28.826
	August....	9	4.17	18.55	21.32	69.49	81	.570	6.29	3.93	7.75	3.55	2.65	28.927

[a] See foot-notes to Exhibit K, page 256.
[b] One death in unknown month excluded.
[c] Exceptions to the proposition that *more* than an average number of deaths from diphtheria occurred in months in which the temperature was *less* than the average, and *vice versa*.
[d] Exceptions to the proposition that *more* than an average number of deaths from diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*.

Exhibit M will enable the reader to study the relations of many meteorological conditions to the deaths from diphtheria by months, the months being arranged in order—those in which the greatest number of deaths are returned as having occurred, first. It will be seen that the proposition that the air was *colder* than the average in months in which *more* than the average number of deaths occurred, and *warmer* than the average in months in which *less* than the average number of deaths occurred, holds true in 7 out of the 12 cases.

In 8 cases out of the 12 the proposition holds true that the air contained *less* than the average amount of vapor of water in months in which there were *more* than the average number of deaths from diphtheria, and *more* than the average amount of vapor in months in which there were *less* than the average number of deaths. The proposition that the amount of ozone was *greater* than the average in months in which there were *more* than the average number of deaths, and *less* than the average in months in which there were *less* than the average number of deaths, holds true in 8 cases out of the 12 by the day observations, and in 9 cases out of 12 by the night observations. Other interesting comparisons may be made by methods similar to those mentioned. It remains for further investigation to determine to what extent these relations are direct and causal, to what extent indirect, and in what ways they are only incidental.

Cerebro-spinal Meningitis.—Exhibit V shows the number of deaths returned as having been caused by the diseases there tabulated to have been much greater than has been returned for previous years. There are no deaths from Cerebro-spinal Meningitis compiled for 1869; but the order of the subsequent years, greatest number of deaths from Cerebro-spinal Meningitis first, is as follows: in 1870, 1 death; in 1871, 7 deaths; in 1872, 79; and in 1873, 145. In 1873 more than half of the deaths from this disease are returned as having occurred in the three months of February, March, and April. The diseases tabulated in Exhibits V and 10, and diseases believed to be allied to them in method of causation, appear to be the ones which caused the unusual number of deaths returned as having occurred in Michigan during January, February, and March, 1873. As appears by Exhibit D, page 117, the average temperature during those months was considerably below the average of the nine years ending with 1872. This might be regarded as only an accidental coincidence; but the influence of temperature in the causation of Cerebro-spinal Meningitis has been studied elsewhere, and evidence has been collected which led the compiler of these statistics, when summarizing the evidence of the causes of this disease, to say: "To specify the prominent causes, I conclude that, as regards season of year, which has been known to have some close relation to this disease, it is probable that cold and reaction therefrom are the principal controlling elements, and that cold is one of the causes of this disease."*

A disease like this in which death may not occur until some months after the experience of the conditions which caused the disease, is a difficult one to study as is done in Exhibit 10; yet, probably in many cases of this disease deaths occur within the month of such experience, and a series of such Exhibits, for a number of years, may teach some valuable lesson. In studying Exhibit 10, however, it may be well to have in mind two supposed facts concerning this disease, namely, that it may result from *reaction* from cold, and deaths may occur in one month, due to causes which produced the disease in a preceding month. In such cases, the deaths follow,—and are not coincident in time with the conditions which caused them. These peculiarities of the disease under consideration make it desirable to study it also in a manner slightly different from the method in Exhibit 10, where the averages with which the deaths in each month and the temperature in each month are compared, are the averages only for the year studied. By the comments in

*Second Annual Report of the State Board of Health, Michigan, 1874, p. 192.

the first paragraph relating to this disease, it will be seen that the total number of deaths, and consequently the average number in each month, in 1873, was *greater* than the usual number; and by Exhibit D, page 117, it will be seen that the average temperature for the year 1873 was lower than the average of former years.

Though this is only one case, and may, therefore, be only incidental, it is possible, and, considering the evidence in the same direction obtained from other sources, it seems probable, that even a quantitative relation between temperature and Cerebro-spinal Meningitis may be traced by comparisons of the data for the years 1872, 1873, and the average of former years. Counting the several terms indicating disease which are included in Exhibit 10 as several names for substantially the same disease, which should probably be called "Tetanoid fever," the deaths returned from this cause for the year 1872 were *greater* than the average of preceding years, but *less* than the number returned for 1873. Turning to Exhibit D, page 117, we find that the average temperature for 1872 was *lower* than the average for preceding years, but *higher* than for 1873. December in 1872 was very much colder than the average December, and the deaths in December 1872 nearly equaled the average number during that year; while December 1873 was warmer than the average December, and, as shown by Exhibit 10, December 1873 is next to the least month in order of number of deaths. Again, the change of place in the order of number which occurs in 1873, compared with 1872 (see Exhibit 10 in this Report, and page 367, Vital Statistics of Mich., 1872), is connected with a similar state of facts concerning the month of January, which in 1872 was warmer than the average of former years, and was next to the least month in order of number of deaths from this disease, while in 1873 January was colder than the average for that month, and the deaths nearly equaled the average for the year.

Judging from what is known of this disease, the effects of the severe cold in December 1872, and January 1873, however, probably did not end with the deaths returned as having occurred in those months, but if, as is supposed, the cold and reaction therefrom under certain circumstances, cause Cerebro-spinal Meningitis, then some of the deaths from this disease which occurred in months following those may properly be chargeable to the extreme cold at that time. In the Annual Report of the Michigan State Board of Agriculture for the year 1872, page 290, Prof. R. C. Kedzie, Meteorological Observer at the Agricultural College for many years, says: "The month of December was more than 8° below the average temperature of that month, a fitting forerunner of the terribly cold winter of 1873. The period from December 22d to 25th will long be remembered as *the severest 'cold spell' ever witnessed in our State.** On the morning of the 24th of December the thermometer stood at 32° below zero. This extreme cold was not confined to our State, but appears to have swept as a polar wave from Pembina in a southeasterly direction across Minnesota, Wisconsin, and Michigan, thence easterly across Ontario and New York, and thence northeasterly to Quebec. The damage to fruit trees and the suffering which it caused to all classes will not soon be forgotten." If it shall be found to be true, as now seems probable, that a large proportion of the 812 deaths returned as having occurred from the diseases tabulated in Exhibit 10,

*Italics mine.—H. B. B.

were in great part caused by the excessively cold weather during the winter of 1872–3, there is good reason why the suffering should not be forgotten. It should be kept in mind until the facts are learned; and, if the facts are as is supposed, they should be kept in mind until effective measures for the prevention of such results in the future shall be devised and made generally known.

EXHIBIT V.—*The Total Number of Deaths from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, in Michigan during the Year 1873, by Months and by Sex.*

CAUSES OF DEATH.	SEX.	YEAR, 1873.	MONTHS, 1873.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Total	Total	812	65	128	147	123	90	59	41	48	40	27	20	24
	Males	461	33	68	81	77	54	33	22	26	22	16	14	15
	Fema's	351	32	60	66	46	36	26	19	22	18	11	6	9
Cerebro-spinal Meningitis	Total	145	7	25	35	29	12	10	7	7	4	2	3	4
	Males	89	4	15	21	19	6	4	6	4	3	2	2	3
	Fema's	56	3	10	14	10	6	6	1	3	1	------	1	1
Spotted Fever	Total	66	1	9	13	10	11	6	5	4	3	1	1	2
	Males	36	------	4	7	5	8	3	4	1	2	------	1	1
	Fema's	30	1	5	6	5	3	3	1	3	1	1	------	1
Spinal Meningitis	Total	166	7	29	36	25	19	12	10	8	5	7	2	6
	Males	94	4	15	14	18	14	7	5	5	4	1	2	5
	Fema's	72	3	14	22	7	5	5	5	3	1	6	------	1
Meningitis	Total	7	------	1	------	1	------	1	1	------	1	2	------	------
	Males	5	------	------	------	1	------	1	1	------	------	2	------	------
	Fema's	2	------	1	------	------	------	------	------	------	1	------	------	------
Spinal Fever	Total	428	50	64	63	58	48	30	18	29	27	15	14	12
	Males	237	25	34	39	34	26	18	6	16	13	11	9	6
	Fema's	191	25	30	24	24	22	12	12	13	14	4	5	6

Cerebro-spinal meningitis, or Tetanoid Fever, seems to have two seasonal maxima,—one main one in March or April, when the atmospheric pressure is falling or nearly at its lowest, and another, a secondary one, in August or September, when the pressure is rising or at its highest. This is worthy of notice in connection with the evidence, in this disease, of disturbance of the blood-pressure, probably through disturbance of the vaso-motor nerves, and in connection with the belief that upon the proper action of these nerves, which control the circulation of the blood, depends, in great degree, the proper regulation of the temperature of the body.

EXHIBIT 10.—*Deaths in Michigan from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, by Months during the Year 1873, and some Meteorological conditions existing at the same time.* (*See note on pages 256–7.*)

Months in order by Number of Deaths from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, greatest first.		Deaths.		Temperature, — Fahr.; Mean of 3 Daily Observations,—7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, Etc.,—Monthly Averages.			Ozone,—Relative. Maximum = 10.		Barometer Reduced to 32° Fahrenheit;—Average.	Rain and Melted Snow, in Inches.	Range of Barometer.	
				Average Range.											
		Number.	Per Cent. of Total.	Daily.	From Day to Day, 2 P. M. to 2 P. P.	Temperature.	Relative Humidity or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. [a]	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			Monthly, and Year.	Average Daily.
Year, 1873...		812	100.00	14.37°	17.67°	44.54°	80	.297	3.36	4.02	4.63	28.874	31.745	1.307	.141
More than the Av. No. of Deaths.	Mar..	147	18.10	[b] 14.16°	[c] 16.61°	28.30°	71	[e] .127	[f] 1.52	[g] 4.09	[g] 5.80	28.852	1.730	1.307	.218
	Feb..	128	15.76	14.61	18.71	19.10	[d] 91	[e] .117	[f] 1.43	[g] 4.21	[g] 5.93	28.847	.770	.842	.197
	April	123	15.15	[b] 12.23	[c] 15.93	43.17	80	[e] .233	[f] 2.71	3.76	4.27	28.798	3.876	.880	.109
	May.	90	11.08	14.61	[c] 17.16	[i] 56.98	75	.355	4.00	[g] 4.58	4.59	28.826	3.054	.897	.108
Average		68	8.33	14.37	17.67	44.54	80	.297	3.36	4.02	4.63	28.874	2.645	.902	.141
Less than the Average Number of Deaths.	Jan...	65	8.00	12.10	15.81	[i] 15.87	83	.092	1.14	5.06	6.32	[h] 28.873	2.980	.880	.165
	June	59	7.27	[b] 18.30	[c] 21.27	70.60	[d] 71	[e] .532	[f] 5.85	[g] 3.26	[g] 2.66	[h] 28.840	2.956	.838	.104
	Aug..	48	5.91	[b] 18.55	[c] 21.32	69.49	81	[e] .570	[f] 6.29	[g] 3.55	[g] 2.65	28.927	.796	.574	.084
	July.	41	5.05	[b] 15.35	[c] 18.68	70.82	[d] 78	[e] .588	[f] 6.45	[g] 3.59	[g] 3.06	28.914	5.124	.453	.083
	Sept.	40	4.93	[b] 16.73	[c] 21.60	57.38	84	[e] .398	[f] 4.50	[g] 2.30	[g] 4.27	28.928	3.499	.779	.119
	Oct....	27	3.33	[b] 17.16	[c] 20.65	44.68	80	.253	2.92	4.52	4.69	28.917	1.914	1.022	.127
	Dec..	24	2.96	8.35	12.16	[i] 29.54	82	.152	1.82	4.97	5.89	28.929	3.020	1.173	.205
	Nov..	20	2.46	10.23	12.10	[i] 28.49	81	.144	1.73	4.30	5.47	[h] 28.833	2.026	1.184	.174

[a] See foot-notes to Exhibit K, page 256.
[b] Exceptions to the proposition that the Daily Range of Temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[c] Exceptions to the proposition that the Range of temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[d] Exceptions to the proposition that the Relative Humidity was *less* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.
[e] Exceptions to the proposition that the Force of Vapor was *greater* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.
[f] Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[g] Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[h] Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *less* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.
[i] Exceptions to the proposition that the temperature was *lower* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

This Exhibit should be studied in connection with Exhibit D, page 117, and the remarks on pages 117–118. See also Diagram No. 1, page 5, and No. 3, page 115, and Table XVII., pages 221–222, 232, 239. The propositions are made to facilitate study of the disease, and not necessarily to accord with any theory of the causation of the disease. The remarks on this Exhibit and on the diseases here tabulated, may be found on pages 260–2.

EXHIBIT U.—*Deaths returned as having occurred in Michigan from Congestive Chills, by months, during the year 1873, and some Meteorological conditions existing at the same time.* *(See note on pages 256–257.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CONGESTIVE CHILLS, GREATEST FIRST.	Deaths.		Temperature, — Fahr.; Mean of 3 daily observations,—7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, Etc.,— Monthly Averages.					Ozone,—Relative. Maximum=10.		Barometer reduced to 32° Fahrenheit, —Average.	Rain and Melted Snow, in Inches.	Range of Barometer.	
			Average Range.													
	Number.	Per Cent. of Total.	Daily.	From Day to Day,—2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Troy ounces, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Troy ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.[a]	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			Monthly, and Year.	Average Daily.
Year, 1873	[b]110	100.00	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874	31.745	1.307	.141
More than the Average number of Deaths. — August	17	15.45	18.55	21.32	69.49	81	.570	6.29	3.93	7.75	3.55	2.65	28.927	.796	[i].574	[j].084
September	14	12.73	16.73	21.60	57.38	84	.398	4.50	2.81	8.87	2.30	4.27	28.928	3.499	[i].779	[j].119
June	12	10.91	18.30	21.27	70.60	71	.532	5.85	3.66	8.02	3.26	2.66	[b]28.840	2.956	[i].838	[j].104
December	12	10.91	[c]8.35	[d]12.16	[e]29.54	82	.152	[f]1.82	1.14	10.54	[g]4.97	[g]5.89	28.929	3.020	1.173	.205
Average	9	8.33	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874	2.645	.902	.141
Less than the Average number of Deaths. — January	9	8.18	12.10	15.81	15.87	83	.092	1.14	.71	10.97	5.06	6.32	28.873	2.980	.880	[j].165
May	9	8.18	[c]14.61	17.16	[e]56.98	75	.355	[f]4.00	2.50	9.18	4.58	[g]4.59	28.826	3.054	.897	.108
March	8	7.27	14.16	16.61	28.30	71	.127	1.52	.95	10.73	4.09	5.80	28.852	1.730	[i]1.307	[j].218
April	7	6.36	12.23	15.93	43.17	80	.233	2.71	1.07	10.61	[g]3.76	[g]4.27	28.798	3.876	.880	.109
October	7	6.36	[c]17.16	[d]20.65	[e]44.68	80	.253	2.92	1.82	9.86	4.52	4.60	[b]28.917	1.914	[i]1.022	.127
February	5	4.55	[c]14.61	[d]18.71	19.10	91	.117	1.43	.89	10.79	4.21	5.93	28.847	.770	.842	[j].197
July	5	4.55	[c]15.35	[d]18.68	[e]70.82	78	.588	[f]6.45	4.03	7.65	[g]3.59	[g]3.06	[b]28.914	5.124	.453	.083
November	5	4.55	10.23	12.10	28.49	81	.144	1.73	1.08	10.60	4.30	5.47	28.833	2.026	[i]1.184	[j].174

[a] See foot-notes to Exhibit K, page 236.

[b] Excluding two in unknown month.

[c] Exceptions to the proposition that the daily Range of temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[d] Exceptions to the proposition that the Range of temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[e] Exceptions to the proposition that the temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[f] Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[g] Exceptions to the proposition that the Ozone was *less* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

[h] Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[i] Exceptions to the proposition that the Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[j] Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Congestive Chill, and Intermittent Fever.—Are believed to be essentially of the same nature, and appear to have similar relations to meteorological conditions, except that the maximum of deaths from intermittent fever seems to occur at a little later time of the year than the maximum of deaths from congestive chill, much as might be supposed if both are dependent upon the same causes; deaths from congestive chill occurring more nearly at the time of occurrence of the conditions producing the disease, while deaths from intermittent fever occur after the lapse of a more considerable time. In the Exhibits U and W, it will be seen that the greatest number of deaths from congestive chill were returned as having occurred in August, while the greatest number from intermittent fever occurred in September.

So far as can be judged by the evidence in exhibits U and W, and the corresponding exhibits in the Report for 1872, it would appear that the conditions coincident with the greatest number of deaths from this cause, or from these two diseases, are: a temperature higher than the average annual temperature, and having a greater than the average monthly or daily range; a greater than average humidity of the air, a less than the average quantity of ozone, a greater than average pressure of atmosphere, and a greater than average range in atmospheric pressure.

EXHIBIT W.—*Deaths returned as having occurred in Michigan from Intermittent Fever, by Months, during the Year 1873, and some Meteorological conditions existing at the same time.* *(See note on pages 256–257.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM INTERMITTENT FEVER, GREATEST FIRST.	Deaths.		Temperature,—Fahr.; Mean of 3 Daily Observations,—7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, Etc.,—Monthly Averages.					Ozone,—Relative. Maximum —10.		Barometer Reduced to 32° Fahrenheit,—Average.	Rain and Melted Snow, in Inches.	Range of Barometer.	
			Average Range.													
	Number.	Per Cent. of Total.	Daily.	From Day to Day,—2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Troy ounces, of Vapor Exhaled from Air Passages in 24 hours, in excess of vapor inhaled.[a]	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			Monthly, and Year.	Average Daily.
Year, 1873	73	100.00	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874	31.745	1.307	.141
More than the Av. No. of Deaths. — September	13	17.81	16.73	21.60	57.38	84	.398	4.50	2.81	8.87	2.30	4.27	28.928	3.499	[b].779	[i].119
More than the Av. No. of Deaths. — August	11	15.06	18.55	21.32	69.49	81	.570	6.29	3.93	7.75	3.55	2.65	28.927	.796	[b].574	[i].084
More than the Av. No. of Deaths. — December	8	10.96	[b] 8.35	[c] 12.16	[d]29.54	82	.152	[e] 1.82	1.14	10.54	[f] 4.97	[f] 5.89	28.929	3.020	1.173	.205
More than the Av. No. of Deaths. — May	7	9.59	14.61	[c] 17.16	56.98	75	.355	4.00	2.50	9.18	[f] 4.58	4.59	[g] 28.826	3.054	[b].897	[i].108
Average	6	8.33	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874	2.645	.902	.141
Less than the Average Number of Deaths. — October	6	8.22	[b]17.16	[c] 20.65	[d]44.68	80	.253	2.92	1.82	9.86	4.52	4.69	[g] 28.917	1.914	[b]1.022	.127
Less than the Average Number of Deaths. — November	6	8.22	10.23	12.10	28.49	81	.144	1.73	1.08	10.60	4.30	5.47	28.833	2.026	[b]1.184	[i].174
Less than the Average Number of Deaths. — February	5	6.85	[b]14.61	[c] 18.71	19.10	91	.117	1.43	.89	10.79	4.21	5.93	28.847	.770	.842	[i].197
Less than the Average Number of Deaths. — March	4	5.48	14.16	16.61	28.30	71	.127	1.52	.95	10.73	4.09	5.80	28.852	1.730	[b]1.307	[i].218
Less than the Average Number of Deaths. — April	4	5.48	12.23	15.93	43.17	80	.233	2.71	1.07	10.61	[f] 3.76	[f] 4.27	28.798	3.876	.880	.109
Less than the Average Number of Deaths. — June	4	5.48	[b]18.30	[c] 21.27	[d]70.60	71	.532	[e] 5.85	3.66	8.02	[f] 3.26	[f] 2.66	28.840	2.956	.838	.104
Less than the Average Number of Deaths. — July	3	4.11	[b]15.35	[c] 18.68	[d]70.82	78	.588	[e] 6.45	4.03	7.65	[f] 3.59	[f] 3.06	[g] 28.914	5.124	.453	.083
Less than the Average Number of Deaths. — January	2	2.74	12.10	15.81	15.87	83	.092	1.14	.71	10.97	5.06	6.32	28.873	2.980	.880	[i].165

[a] See foot-notes to Exhibit K, page 256.

[b] Exceptions to the proposition that the daily Range of temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[c] Exceptions to the proposition that the Range of temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[d] Exceptions to the proposition that the temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[e] Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[f] Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[g] Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[h] Exceptions to the proposition that the Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[i] Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Typhoid Fever.—The number of deaths reported from Typhoid fever for 1873 is greater than for any previous year. The order for the years 1869–1873, greatest first, is as follows: 1873, 677; 1872, 620; 1870, 574; 1869, 437; 1871, 357. It is noticeable that excepting the year 1873 in which the deaths from diarrhea were lessened and those from typhoid fever increased, the order of arrangement of the years 1869–1872 is the same for deaths from typhoid fever as it is for diarrhea. In 1873 the greatest number is returned for October, the least number for May; in 1872 the greatest number is returned for October, the least number for July; in 1871 the greatest number is returned for September, the least for July.

In each of the years 1872–1873 the largest number of deaths is returned of persons between the ages of fifteen and twenty-five years.

It is worthy of remark that while the deaths from diarrhea are mainly of children under five years of age, many of the deaths from typhoid fever are of persons at somewhat older ages, the deaths from the last named disease occur a little later in the season of the year, and, as a rule, are increased in years when the deaths from diarrhea are increased.

Typhoid fever occurs most, or at least is usually most fatal, in months when the barometric pressure is greatest. This fact, it seems to the writer, should be connected with the fact that causes which, like the application of cold, constringe the blood-vessels of the surface of the body, through stimulation of vaso-motor nerves, tend toward an increase of heat within the body. Excessive contraction of the surfaces of the body tend toward reduction of amount of blood exposed to cooling influences on the surface, toward internal congestions and consequently toward increase of heat of the body. A greater than average pressure of atmosphere upon the surface of the body may, if other things are equal, have the same effect. The time of greatest heat of the human body corresponds more closely with the time of day of the greatest heat of the atmosphere than with the time of greatest pressure of the atmosphere; but when increased atmospheric pressure is coincident with a high temperature, as it is in the months of August and September, the *tendency* to fever would seem to be apparent.

The temperature of the body may be abnormally increased in different ways, as, for instance, by lessened radiation of heat, as just suggested, and by the introduction into the blood of some substance which readily undergoes such change as will liberate heat. It seems probable that many organic substances undergoing decomposition will, if introduced into the body, tend to abnormally increase the temperature of the human body. This bears more particularly upon the subject of non-specific fevers. The tendency of thought has recently been toward the belief that typhoid fever is due to the introduction into the blood of some specific organic substance or infectious matter capable of reproduction and continuance; but one writer has called attention to the fact that the typhoid and other autumnal fevers prevail after the occurrence of diarrhea, dysentery, cholera infantum, and cholera morbus, diseases which are attended with the discharge of unusual quantities of organic matter in a condition liable to fermentations and rapid decomposition. In Michigan, and elsewhere, typhoid fever has seemed to prevail most in places where the water used for drinking purposes has been taken from wells, some foreign cities not supplied with water from wells being remarkably free from the disease, except as communicated by means of milk which had in some way become contaminated with the cause of the disease, and such contamination has sometimes been traced to the water

with which the milk cans have been washed or with which the milk has been adulterated. The writer, just referred to, has suggested that the occurrence of typhoid fever following the summer diarrheas is very suggestive of the source of the organic matter which is believed to have been introduced into the blood of the person who has typhoid fever. When we consider that the location of the well is so frequently not very distant from the privy, that the soil is sometimes so porous as to permit of ready filtration into the well of fluids thrown on the surface, that typhoid fever seems to prevail most where well water is used, in villages and not in newly settled localities, the more general prevalence of typhoid fever at a season of the year following the summer diarrheas is indeed a significant fact which should lead to a closer investigation, and, pending such investigation, should prompt to greater care respecting the purity of the water supply from wells.

EXHIBIT X.—*Deaths returned as having occurred in Michigan from Typhoid Fever, by Months, during the Year 1873, and some Meteorological conditions existing at the same time.* *(See note on pages 256–257.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM TYPHOID FEVER, GREATEST FIRST.		Deaths.		Temperature, — Fahr.; Mean of 3 Daily Observations,—7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc.,— Monthly Averages.					Ozone,— Relative. Maximum = 10.		Barometer Reduced to 32° Fahrenheit,—Average.	Rain and melted Snow, in Inches.	Range of Barometer.	
		Number.	Per Cent. of Total.	Average Range. Daily.	Average Range. From Day to Day,—2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor, in Cubic Foot of Air.[a]	Weight, in Troy ounces, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Troy ounces, of Vapor, Exhaled from Air Passages in 24 hours in excess of vapor inhaled.[a]	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			Monthly, and Year.	Average Daily.
Year, 1873		[b] 673	100.00	14.37	17.67	44.54	80	.207	3.36	2.05	9.63	4.02	4.63	28.874	31.745	1.307	.141
More than the Av. No. of Deaths.	October	144	21.40	17.16	20.65	44.68	80	.253	[f] 2.92	1.82	9.86	[g] 4.52	[g] 4.69	28.917	1.914	1.022	[j] .127
	September	103	15.30	16.73	21.60	57.38	84	.398	4.50	2.81	8.87	2.30	4.27	28.928	3.499	[i] .779	[j] .113
	November	77	11.44	[c] 10.23	[d] 12.10	[e] 28.49	81	.144	[f] 1.73	1.08	10.60	[g] 4.30	[g] 5.47	[h] 28.833	2.026	1.184	.174
	August	62	9.21	18.55	21.32	69.49	81	.570	6.29	3.93	7.75	3.55	2.65	28.927	.796	[i] .574	[j] .084
Average		56	8.33	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874	2.645	.902	.141
Less than the Average Number of Deaths.	December	50	7.43	8.35	12.16	29.54	82	.152	1.82	1.14	10.54	4.97	5.89	[h] 28.929	3.020	[i] 1.173	[j] .205
	February	45	6.69	[c] 14.61	[d] 18.71	19.10	91	.117	1.43	.89	10.79	4.21	5.93	28.847	.770	.842	[j] .197
	January	39	5.79	12.10	15.81	15.87	83	.092	1.14	.71	10.97	5.06	6.32	28.873	2.980	.880	[j] .165
	April	39	5.79	12.23	15.93	43.17	80	.233	2.71	1.07	10.61	[g] 3.76	[g] 4.27	28.798	3.876	.880	.109
	July	36	5.35	[c] 15.35	[d] 18.68	[e] 70.82	78	.588	[f] 6.45	4.03	7.65	[g] 3.59	[g] 3.06	[h] 28.914	5.124	4.53	.063
	March	32	4.76	14.16	16.61	28.30	71	.127	1.52	.95	10.73	4.09	5.80	28.852	1.730	[i] 1.307	[j] .218
	June	24	3.57	[c] 18.30	[d] 21.27	[e] 70.60	71	.532	[f] 5.85	3.66	8.02	[g] 3.26	[g] 2.66	28.840	2.956	.838	1.04
	May	22	3.27	[c] 14.61	17.16	[e] 56.98	75	.355	[f] 4.00	2.50	9.18	4.58	[g] 4.59	28.826	3.054	.897	.108

[a] See foot-notes to Exhibit K, page 256.

[b] Excluding four in unknown month.

[c] Exceptions to the proposition that the daily Range of temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[d] Exceptions to the proposition that the Range of temperature "from day to day" was *greater* than the average in the months when *more* than the average number of deaths occurred, and *vice versa*.

[e] Exceptions to the proposition that the temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[f] Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[g] Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[h] Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

[i] Exceptions to the proposition that the Range of Barometer was *greater* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

[j] Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Exhibit X. is similar to Exhibit 19, in the last Report. It enables the reader to make a close study of the relations of meteorological conditions to the time of deaths from typhoid fever. It should be borne in mind that in this disease the time of death is not as near the time of contracting the disease as it is in diseases which run a shorter course. Exceptions to propositions such as are made and studied in Exhibit X. may be expected from this cause, and some allowance should be made for lapse of time between the causation of the disease and the deaths therefrom.

Diarrhea.—From 1869 the number of deaths reported from diarrhea has increased with each alternate year. The order of the years, greatest number first, is as follows: 1872, 437; 1870, 407; 1873, 383; 1869, 295; 1871, 216. The per cent. of All Causes in 1873 is greatest in the Southeastern Division of the State; this division also shows the largest number of deaths from diarrhea. The smallest per cent. appears for the Southern Central Division, and the smallest number of deaths from this disease was returned for the Northeastern Division.

The largest number of deaths from diarrhea was returned for August; and of the 383 deaths from this disease (Acute and Chronic) 326 were of persons under five years of age.

Table XXI. is similar to the table in the last Report, except that two columns have been added relative to typhoid fever, in order to learn whether the deaths returned from this disease are distributed in a manner similar to the deaths from diarrhea. So far as shown for this single year, they do not seem to be, but the study of this subject on the hypothesis mentioned in connection with the study of typhoid fever, is difficult, because of the different sources of water supply in different geographical divisions. If the typhoid fever is quite generally caused by bad water in wells which is in some way connected with the previous prevalence of diarrhea, this can only be so in localities where well water is used, and in Detroit and several other places the water is not taken from wells, so that no direct comparison of the kind at first attempted in this table can be made, but so far as relates to the Southeastern Division, in which Detroit is situated, its water coming from the river, the comparison is much as might be expected on the above-mentioned hypothesis. The proportion of deaths from typhoid fever was somewhat less than the average, while that from diarrhea was much greater than the average for the State. So also the Bay and Eastern Division contains Bay City and Port Huron, supplied with water from the bay and river, and the Western Division contains Grand Rapids, not wholly supplied with water from wells; it is worthy of notice that of the three remaining divisions furnishing exceptions to the proposition made in the foot-note to the table, all are inland, with no very large rivers from which to obtain a water supply, one, the Northern Central, is rather new and not thickly settled, and in this division a greater than average proportion of deaths from diarrhea was accompanied with less than the average proportion of deaths from typhoid fever, though by turning to Table XXV. it may be seen that the two counties of Mecosta and Midland had a greater than average proportion of deaths from typhoid fever; the two other exceptional divisions—Central and Southern Central—had a larger proportion of deaths from the fever than had any others, both divisions are comparatively old and thickly settled; both are farthest removed from a water supply from large rivers or great lakes, and in both divisions the proportion of deaths from typhoid fever was greater than the average, while the proportion from diarrhea was much less than the average. The subject is well worthy of study, whenever facts bearing upon it can be secured. The geographical distribution of deaths returned from typhoid fever can be studied by counties in Table XXV., and of the deaths of children under five years of age in Table XXVII. in this Report.

Dysentery.—The number of deaths reported to have been caused by this disease in 1873 was 319,—137 less than in 1872. The order of the number of deaths from dysentery for the years 1869–1873 is the same as from diarrhea.

The largest per cent. of deaths from dysentery to deaths from All Causes is

shown for the Northeastern Division, and the smallest for the Southern Central, as is also the case with diarrhea. The largest number of deaths from this disease (Acute and Chronic) was returned for the Central Division, and the smallest for the Northern.

The largest number was returned for August, as was the case with diarrhea, and a very large proportion was of persons under five years of age.

TABLE XXI.—*Exhibiting, for the State and for eleven Geographical Divisions of the State, during the year 1873, the Number of Deaths returned as having occurred from Diarrhea, from Dysentery, and from Typhoid Fever, and the Per Cent. of Deaths from each Disease to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.[a]	Diarrhea. Acute and Chronic.		Dysentery. Acute and Chronic.		Typhoid Fever.	
	Number of Deaths, 1873.	Per Cent. of Deaths from Diarrhea to Deaths from All Causes.	Number of Deaths, 1873.	Per Cent. of Deaths from Dysentery to Deaths from All Causes.	Number of Deaths, 1873.	Per Cent. of Deaths from Typhoid Fever to Deaths from All Causes.
State	383	2.69	319	2.24	677	4.75
Upper Peninsula	27	4.10	25	3.79	35	5.31
Northwestern	5	1.92	12	4.60	9	3.45
Northern	3	2.54	4	3.39	3	2.54
Northeastern	2	1.53	19	14.50	5	3.82
Western	54	3.25	60	3.67	77	[b] 4.64
Northern Central	7	2.82	5	2.02	9	[b] 3.63
Bay and Eastern	71	3.18	27	1.21	92	[b] 4.12
Central	19	.82	67	2.90	136	[b] 5.88
Southwestern	13	.90	30	2.07	57	3.94
Southern Central	14	.56	24	.96	142	[b] 5.68
Southeastern	168	6.25	46	1.71	112	[b] 4.16

[a] For counties included in each Division, see page 174.
[b] Exceptions to the proposition that a greater than average proportion of deaths from diarrhea is accompanied or followed by a greater than average proportion of deaths from Typhoid fever, and *vice versa*.

Measles.—For the year 1873, more deaths from measles were returned than for any previous year, the order of the years 1869—1873 being: 1873, 244; 1872, 179; 1869, 147; 1871, 67; 1870, 56. In 1873, more than half of the deaths from measles occurred in the months of April, May, and June; and of the 244 deaths from this disease, 165 were of persons under five years of age. These same months show a very large proportion of deaths from this disease in 1872 also, but not in any other year. In each year a very large proportion are of persons under five years of age.

Scarlet Fever.—Tables XVII., XIX., and XX., and Exhibit Y contain valuable data concerning scarlet fever. The order of the years 1869—1873 i

as follows: 1870, 852 deaths; 1871, 696; 1873, 573; 1872, 561; 1869, 252. In 1873, December shows the largest number of deaths from this disease, although the numbers are quite evenly distributed throughout the several months. A very large proportion of the deaths are of persons under ten years of age,—503 out of the 573 deaths from scarlet fever. By Exhibit Y it may be seen that, as regards this disease, there is only one exception to the proposition that *more* than the average number of deaths occurred in months in which the temperature was *lower* than the average, and *less* than the average number of deaths in months in which the temperature was *higher* than the average.

EXHIBIT Y.—*Deaths returned as having occurred from Scarlet Fever in Michigan during the Year 1873, and some Meteorological Conditions existing at the same time. (See Note on pages 256–257.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM SCARLET FEVER, GREATEST FIRST.		Deaths.		Temperature, — Fahr.; Mean of 3 daily Observations, 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, Etc., — Monthly Averages.					Ozone, — Relative. Maximum =10.		Barometer reduced to 32° Fahrenheit — Average.
				Average Range.										
		Number.	Per Cent. of Total.	Daily.	From Day to Day, — 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Troy ounces, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Troy ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.[a]	Day, — 7 A. M. to 2 P. M.	Night, — 9 P. M. to 7 A. M.	
Year, 1873		573	100.00	14.37	17.67	44.54°	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
More than the Average No. of Deaths.	December	62	10.82	8.35	12.16	29.54	82	.152	1.82	1.14	10.54	4.97	5.89	28.929
	March	59	10.30	14.16	16.61	28.30	71	.127	1.52	.95	10.73	4.09	5.80	28.852
	November	59	10.30	10.23	12.10	28.49	81	.144	1.73	1.08	10.60	4.30	5.47	28.833
	April	56	9.77	12.23	15.93	43.17	80	.233	2.71	1.07	10.61	3.76	4.27	28.798
	February	54	9.42	14.61	18.71	19.10	91	.117	1.43	.89	10.79	4.21	5.93	28.847
	May	49	8.55	14.61	17.16	[b]56.98	75	.355	4.00	[c]2.50	9.18	4.58	4.59	28.826
	January	48	8.38	12.10	15.81	15.87	83	.092	1.14	.71	10.97	5.06	6.32	28.873
Average		47.75	8.33	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
Less than the Average No. of Deaths.	July	41	7.16	15.35	18.68	70.82	78	.588	6.45	4.03	7.65	3.59	3.06	28.914
	August	41	7.16	18.55	21.32	69.49	81	.570	6.29	3.93	7.75	3.55	2.65	28.927
	October	37	6.45	17.16	20.65	44.68	80	.253	2.92	[c]1.82	9.86	4.52	4.69	28.917
	June	36	6.28	18.30	21.27	70.60	71	.532	5.85	3.66	8.02	3.26	2.66	28.840
	September	31	5.41	16.73	21.60	57.38	84	.398	4.50	2.81	8.87	2.30	4.27	28.928

[a] See foot-notes to Exhibit K, page 256.

[b] Exception to proposition that *more* than the average number of deaths occurred in months in which the temperature was *lower* than the average, and *vice versa*.

[c] Exceptions to proposition that *more* than an average number of deaths occurred in months in which *less* than an average quantity of vapor was inhaled, and *vice versa*.

Whooping-cough.—This disease is reported to have caused more deaths in 1873 than in any previous year; and the largest number occurred in August, and of persons under five years of age,—193 of the 206 deaths from whooping-cough in 1873 being of persons under five years of age.

The order of the years, greatest number of deaths from whooping-cough first, is as follows: in 1873, 207 deaths; in 1872, 192; in 1869, 158; in 1870, 119; in 1871, 68.

In 1872 and 1873, for which the greatest numbers were returned, there is an excess of males; but in each of the other years the excess is of females.

Consumption.—According to the returns, there were 1,447 deaths from consumption in Michigan in 1873. The number does not vary much from year to year, the order of the years 1869–1873, greatest number first, is as follows: 1872, 1,467; 1870, 1,451; 1873, 1,447; 1871, 1,303; 1869, 1,233. There is an excess of females in each year. In 1873, the largest number of deaths from this disease occurred in September, and of persons between the ages of twenty and twenty-five years.

EXHIBIT N.—*By Sex, the Number of Deaths returned as having occurred in Michigan from Consumption during the Year 1873, by Months Equalized to Uniform length of 30.44 days each; and also the Average Numbers per Month (Deaths in Unknown Months and of persons of Unknown Sex Excluded).*

	Total.	Months of Equal Length,—1873.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Av'rage.
Total....	a 1,440	87	126	120	118	129	120	128	118	134	128	117	115	120.00
Males....	668	32	54	53	58	66	56	56	54	59	63	56	61	55.67
Females.	772	55	72	67	60	63	64	72	64	75	65	61	54	64.33

a Excluding deaths from consumption in unknown month. The number of deaths from consumption as returned is 1,447.

In previous reports the compiler has, in some cases, studied consumption by comparing it with pneumonia, with the deaths from which the deaths from consumption have seemed to be so correlated that under circumstances and conditions such that the deaths from one of these diseases were more than the average, the deaths from the other disease seemed to be less than the average; evidence of this correlation is found in these statistics for 1873 as in statistics of previous years; by a comparison of Exhibits O and P, it will be seen that this correlation is very noticeable so far as relates to meteorological conditions in 1873, the propositions relating thereto being exactly reversed for each disease. It should be remembered that while the conditions in the month of death from pneumonia may be the conditions in the month of causation of the disease, this is seldom true of deaths from consumption, and the conditions in the months of the causation of consumption may not differ from those when pneumonia most frequently occurs.

From Exhibit O it appears that there is more than average danger of the death of a consumptive person in Michigan in months when the air is warmer and more moist than the average, the atmospheric ozone less than the average, and the atmospheric pressure is greater than the average.

EXHIBIT O.—*Deaths returned as having occurred from Consumption in Michigan during the Year 1873, and some Meteorological Conditions existing at the same time. (See note on pages 256–257.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CONSUMPTION, GREATEST FIRST.		Deaths.		Temperature, Fahr.; Mean of 3 daily Observations,—7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc.,—Monthly Averages.					Ozone,—Relative. Maximum = 10.		Barometer reduced to 32° Fahrenheit—Average.
				Average Range.										
		Number.	Per Cent. of Total.	Daily.	From Day to Day,—2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Troy ounces, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Troy ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.[a]	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	
Year, 1873		[b]1,436	100.00	14.37	17.67	44.54°	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
More than the Av. No. of Deaths.	September	132	9.19	16.73	21.60	57.38	84	.398	4.50	2.81	8.87	2.30	4.27	28.928
	May	131	9.12	14.61	17.16	56.98	75	.355	4.00	2.50	9.18	[e]4.58	4.59	[f]28.826
	July	130	9.05	15.35	18.68	70.82	78	.588	6.45	4.03	7.65	3.59	3.06	28.914
	October	130	9.05	17.16	20.65	44.68	80	.253	2.92	[d]1.82	9.86	[e]4.52	[e]4.69	28.917
	March	122	8.49	14.16	16.61	[c]28.30	71	.127	1.52	[d] .95	10.75	[e]4.09	[e]5.80	[f]28.852
	August	120	8.36	18.55	21.32	69.49	81	.570	6.29	3.93	7.75	3.55	2.65	28.927
Average		119.6	8.33	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
Less than the Av. No. of Deaths.	June	118	8.22	18.30	21.27	[c]70.60	71	.532	5.85	[d]3.66	8.02	[e]3.26	[e]2.66	28.840
	December	117	8.15	8.35	12.16	29.54	82	.152	1.82	1.14	10.54	4.97	5.89	[f]28.929
	February	116	8.08	14.61	18.71	19.10	91	.117	1.43	.89	10.79	4.21	5.93	28.847
	April	116	8.08	12.23	15.93	43.17	80	.233	2.71	1.07	10.61	[e]3.76	[e]4.27	28.798
	November	115	8.01	10.23	12.10	28.49	81	.144	1.73	1.08	10.60	4.30	5.47	28.833
	January	89	6.20	12.10	15.81	15.87	83	.092	1.14	.71	10.97	5.06	6.32	28.873

[a] See foot-notes to Exhibit K, page 256.

[b] Eleven deaths in unknown month excluded.

[c] Exceptions to the proposition that the temperature was *higher* than the average in months when *more* than the average number of deaths from consumption occurred, and *vice versa*.

[d] Exceptions to the proposition that *more* than an average amount of vapor was inhaled in months in which there was *more* than an average number of deaths from consumption, and *less* than the average amount in months in which *less* than the average number of deaths occurred.

[e] Exceptions to the proposition that the atmospheric ozone was *less* than the average in months in which there were *more* than the average number of deaths from consumption, and *vice versa*.

[f] Exceptions to the proposition that the atmospheric pressure was *greater* than the average in months in which there were *more* than the average number of deaths from consumption, and *vice versa*.

Pneumonia.—With the exception of the year 1870, the number of deaths returned as having been caused by pneumonia in Michigan has been constantly increasing. The number for 1873 is 706,—431 males and 275 females. There has been an excess of deaths of males in each year.

The largest number of deaths from this disease in 1873 occurred in the month of February, and of persons under five years of age. With our present knowledge of the conditions under which the disease prevails, the compiler is of the opinion that a very large proportion of these deaths might easily have been prevented by the exercise of prudence in avoiding exposure of the children to cold dry air. By examining Exhibit P it will be seen that the air was exceedingly cold in February, 1873; and it had been even colder in January, the effects of which may have increased the deaths in February.

EXHIBIT P.—*Deaths returned as having occurred from Pneumonia in Michigan during the Year 1873, and some Meteorological Conditions existing at the same time.* *(See Note on pages 256–257.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM PNEUMONIA, GREATEST FIRST.		Deaths.		Temperature, Fahr.; Mean of 3 Daily Observations,—7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, Etc.,—Monthly Averages.					Ozone,—Relative. Maximum =10.		Barometer Reduced to 32° Fahrenheit—Average.
				Average Range.										
		Number.	Per Cent. of Total.	Daily.	From Day to Day,—2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Troy ounces, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Troy ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.[a]	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	
Year, 1873		[b]705	100.00	14.37	17.67	44.54°	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
More than the Av. No. of Deaths.	February	110	15.60	14.61	18.71	19.10	91	.117	1.43	.89	10.79	4.21	5.93	28.847
	January	84	11.91	12.10	15.81	15.87	83	.092	1.14	.71	10.97	5.06	6.32	28.873
	March	80	11.35	14.16	16.61	28.30	71	.127	1.52	.95	10.73	4.09	5.80	28.852
	December	68	9.65	8.35	12.16	29.54	82	.152	1.82	1.14	10.54	4.97	5.89	[f]28.929
	May	65	9.22	14.61	17.16	[c]56.98	75	.355	4.00	[d]2.50	9.18	4.58	[e]4.59	28.826
	November	65	9.22	10.23	12.10	28.49	81	.114	1.73	1.08	10.60	4.30	5.47	28.833
Average		58.7	8.33	14.37	17.67	44.54	80	.297	3.36	2.05	9.63	4.02	4.63	28.874
Less than the Av. No. of Deaths.	April	58	8.22	12.23	15.93	[c]43.17	80	.233	2.71	[d]1.07	10.61	3.76	4.27	[f]28.798
	June	55	7.80	18.30	21.27	70.60	71	.532	5.85	3.66	8.02	3.26	2.66	[f]28.840
	October	37	5.25	17.16	20.65	44.68	80	.253	2.92	[d]1.82	9.86	[e]4.52	[e]4.69	28.917
	September	34	4.82	16.73	21.60	57.38	84	.398	4.50	2.81	8.87	2.30	4.27	28.928
	August	29	4.11	18.55	21.32	69.49	81	.570	6.29	3.93	7.75	3.55	2.65	28.927
	July	20	2.84	15.35	18.68	70.82	78	.588	6.45	4.03	7.65	3.59	3.06	28.914

[a] See foot-notes to Exhibit K, page 256.
[b] One death in unknown month excluded.
[c] Exceptions to the proposition that the temperature was *higher* than the average in months in which *less* than the average number of deaths from pneumonia occurred, and *vice versa*.
[d] Exceptions to the proposition that *more* than the average amount of vapor was inhaled in months in which there was *less* than the average number of deaths from pneumonia, and *vice versa*.
[e] Exceptions to the proposition that the atmospheric ozone was *more* than the average in months in which there were *more* than the average number of deaths from pneumonia, and *vice versa*.
[f] Exceptions to the proposition that the atmospheric pressure was *less* than the average in months in which there were *more* than the average number of deaths from pneumonia, and *vice versa*.

Exhibit P shows that what has been found true in previous years is true for 1873, and the evidence seems to be conclusive that, as a rule, in months for which more than the average number of deaths from pneumonia are reported the air is more than usually cold and dry. The investigation has been carried still further in the exhibit for 1873, and it appears that in months for which more than the average number of deaths from pneumonia are reported the atmospheric ozone is more than the average, and the atmospheric pressure is less than the average. If this shall prove true in other years it must have an important bearing upon the study of the causes of the disease. The most prominent fact in the pathology of pneumonia is the existence of fibrin in the air-cells in the lung. To this exudation atmospheric pressure probably has an important relation, and any evidence like that in Exhibit P, bearing upon the nature of that relation, must be acknowledged to be important. It has been thought that the fibrin in the blood, and that in the air-cells, may be formed by the oxidation of the albumen; therefore, inasmuch as ozone is active oxygen, evidence of the relation of the presence or absence of ozone to the prevalence of pneumonia is of great importance in the study of the causes of the disease. The word "causes" is used with the intention of signifying a belief that to no single cause can we expect to trace all the pneumonia which ends in the death of persons in Michigan. It seems probable that the most important causes have been named in the first part of this paragraph; but if less than the average pressure of the atmosphere surrounding the body tends toward the causation of pneumonia, there is no reason why increased blood-pressure within the body should not tend toward the same result, and increased blood-pressure in the blood-vessels in the lungs may be due to many different causes. Whether or not the injurious effects of cold in the production of this disease are mainly those connected with increased blood-pressure or stagnation of blood in the lungs, because of paralysis of the vessels by the cold or by the reaction therefrom, is not here discussed, but the evidence of the vital statistics of Michigan supports the belief that a large proportion of the deaths from pneumonia may be avoided by avoiding exposure to cold dry air.

Finding the evidence of the vital statistics of Michigan the same for each year, on the conditions at time of greatest proportion of deaths from pneumonia, the compiler has been desirous of learning whether the evidence was the same elsewhere, and as, so far as known to the compiler, no one of the many compilers of vital statistics in the United States has attempted to follow his plan of study, he has attempted to secure data from sources outside the State, with a view of learning the truth concerning this important subject. He is indebted to J. J. Quinn, M. D., late health officer of Cincinnati, for valuable data which has enabled him to construct Exhibit 11, which exhibits the data for Cincinnati in a manner similar to that of Exhibit P for Michigan. It will be seen that the evidence is the same for Cincinnati as it was found to be for Michigan; in nine cases out of the twelve the propositions hold true, that in months when more than the average number of deaths from pneumonia occurred the air was colder and dryer than the average, and in months when less than the average number of deaths from pneumonia occurred the air was warmer and more moist than the average.

EXHIBIT 11.—*Deaths from Pneumonia in Cincinnati, Ohio, during the Year 1873, and some Meteorological Conditions existing at the same time.*

	MONTHS IN ORDER, BY NUMBER OF DEATHS FROM PNEUMONIA IN CINCINNATI, IN 1873.	Deaths. Number.	Deaths. Per Cent. of Total.	Average Temperature.	Humidity of Atmosphere, etc.,—Monthly Averages. Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.	Weight, in Troy Ounces, of Vapor Inhaled by one Person in twenty-four hours.*	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.*
	Year, 1873	296	100.00	54.97	65.40	3.28	2.05	9.63
More than the Av. No. of Deaths.	March	56	18.92	42.03	61.54	2.03	1.27	10.41
	January	52	17.56	32.46	73.46	1.74	1.09	10.59
	April	38	12.84	53.31	60.51	2.85	1.78	9.90
	December	25	8.45	41.58	72.14	2.38	1.49	10.19
	Monthly Average	24.67	8.33	54.97	65.40	3.28	2.05	9.63
Less than the Average Number of Deaths.	February	23	7.77	[a] 35.74	73.92	2.00	[b] 1.25	10.43
	August	18	6.08	75.93	66.32	6.36	3.98	7.70
	May	17	5.74	65.51	61.49	4.34	2.71	8.97
	November	17	5.74	[a] 41.23	67.61	2.16	[b] 1.35	10.33
	September	15	5.07	68.46	61.04	4.59	2.87	8.81
	June	14	4.73	77.66	59.03	6.01	3.76	7.92
	July	12	4.06	77.74	64.84	6.60	4.13	7.55
	October	9	3.04	[a] 47.96	62.89	2.52	[b] 1.58	10.10

* See foot-notes [b] and [c] to Exhibit K, page 256.

[a] Exceptions to the proposition that the temperature was *higher* than the average in months in which *less* than the average number of deaths from pneumonia occurred, and *vice versa*.

[b] Exceptions to the proposition that *more* than the average amount of vapor was inhaled in months in which there was *less* than the average number of deaths from pneumonia, and *vice versa*.

Correlation of Consumption and Pneumonia.—If the evidence of differences between consumption and pneumonia only extended so far as to show that the circumstances attending deaths from pneumonia were the opposite of those attending deaths from consumption in only about one-half the instances, the probable explanation would be that deaths from consumption occurred more uniformly throughout the year and consequently the apparent correlation is only due to the positive and exceptional characters of pneumonia contrasted with the uniform number of deaths from consumption in all months; but the correlation seems frequently to extend further than this,—thus there is usually an excess of deaths of males from pneumonia and of females from consumption, and more than the average deaths from pneumonia and less than the average

deaths from consumption occur when the air is cold and dry. It seems probable that the true explanation of this last fact, and perhaps of both facts, is, that inflammations of organs occur because of their irritation, and this is quite generally connected with increased activity of their functions, but deaths from consumption may occur because of the decrease of the performance of the functions of the lungs, owing to their impairment by the disease, so that while we should expect the occurrence of pneumonia when irritating causes are combined with increased activity of the functions of the lungs, we might expect more than the average deaths from consumption when the conditions are not favorable to the greatest functional activity of the lungs; and it is possible that the women suffer more deaths from consumption than do the men because much more than the men are they confined in ill-ventilated rooms.

TABLE XXII.—*Correlation of Consumption and Pneumonia. Deaths returned as having occurred from Consumption and Pneumonia in Michigan during the Year 1873, by Months, Exhibiting the Total Number, Number of each Sex, Per Cent. of Total, and Excess of each Sex.*

MONTHS, 1873.	CONSUMPTION.								PNEUMONIA.							
	NUMBER.			Per Ct. of Deaths in each Month to Total for Year.	Per Cent. of Each Sex to Total of both Sexes.		EXCESS.		NUMBER.			Per Ct. of Deaths in each Month to Total for Year.	Per Cent. of Each Sex to Total of both Sexes.		EXCESS.	
	Males.	Females.	Total.		Males.	Females.	Males.	Fem'a.	Males.	Females.	Total.		Males.	Females.	Males.	Fem'a.
Year, 1873	671	776	1,447	100.00	46.37	53.63	.....	7.26	431	275	706	100.00	61.09	38.95	22.10	.....
January	33	56	[b] 89	6.15	37.08	62.92	[c]	25.84	49	35	[b] 84	11.90	58.33	41.67	16.66	[c]
February	50	66	[b] 116	8.02	43.10	56.90	[c]	13.80	71	39	[b] 110	15.58	64.55	35.45	29.10	[c]
March	54	68	122	8.43	44.26	55.74	[c]	11.48	42	38	80	11.33	52.50	47.50	5.00	[c]
April	57	59	116	8.02	49.14	50.86	[c]	1.72	36	22	58	8.21	62.07	37.93	24.14	[c]
May	67	64	131	9.05	51.15	48.85	2.30	.....	34	31	65	9.21	52.31	47.69	4.62	.....
June	55	63	118	8.17	46.61	53.39	[c]	6.78	33	22	55	7.79	60.00	40.00	20.00	[c]
July	57	73	[b] 130	8.98	43.85	56.15	.....	12.30	10	10	[b] 20	2.83	50.00	50.00	.....	.....
August	55	65	[b] 120	8.29	45.83	54.17	[c]	8.34	19	10	[b] 29	4.11	65.52	34.48	31.04	[c]
September	58	74	[b] 132	9.12	43.94	56.06	[c]	12.12	22	12	[b] 34	4.82	64.71	35.29	29.42	[c]
October	64	66	[b] 130	8.98	49.23	50.77	[c]	1.54	25	12	[b] 37	5.24	67.57	32.43	35.14	[c]
November	55	60	[b] 115	7.95	47.83	52.17	[c]	4.34	46	19	[b] 65	9.21	70.77	29.23	41.54	[c]
December	62	55	[b] 117	8.09	52.99	47.01	5.98	.....	44	24	[b] 68	9.63	64.71	35.29	29.42	.....
Unknown	4	7	11	.76	36.36	63.64	.....	27.28	.....	1	1	14	.....	100.00	.....	100.00
Average [a]	55.58	64.08	119.67	8.27	46.25	53.75	.....	.....	35.92	22.83	58.75	8.32	61.09	38.91	.....	.....

[a] Deaths in unknown month excluded.

[b] *Less* than the average number of deaths from consumption, and *more* than the average from pneumonia, or *vice versa*.

[c] Nine out of twelve months in which there was an excess of deaths of one sex from consumption and of the opposite sex from pneumonia.

TABLE XXIII.—*Correlation of Consumption and Pneumonia.—Exhibiting the Number and Per Cent. of Deaths of each Sex, the difference between the Sexes, and the Per Cent. of Total Deaths at each Period of Age from Consumption and Pneumonia in Michigan during the Year 1873, according to the returns.*

AGES IN PERIODS OF YEARS,—1873.	CONSUMPTION.								PNEUMONIA.							
	NUMBER.			Per Cent. of Deaths at Each Age to Deaths at All Ages.	PER CENT. OF THE SEXES.				NUMBER.			Per Cent. of Deaths at Each Age to Deaths at All Ages.	PER CENT. OF THE SEXES.			
							Excess.								Excess.	
	Males.	Females	Total.		Males.	Females	Males.	Females	Males.	Females	Total.		Males.	Females	Males.	Females
All Ages	671	776	1,447	100.00	46.37	53.63	.....	7.26	431	275	706	100.00	61.05	38.95	22.10	.....
Under 5	58	59	117	8.08	49.57	50.43	.....	.86	148	110	258	36.54	57.36	42.64	14.72	.....
5 to 10	6	14	20	1.38	30.00	70.00	.....	40.00	13	18	31	4.40	41.94	58.06	.....	16.12
10 to 15	14	23	37	2.56	37.81	62.19	.....	24.38	9	7	16	2.27	56.25	43.75	12.50	.....
15 to 20	38	77	[b] 115	[b] 7.95	33.04	66.96	.....	33.92	18	6	[b] 24	[b] 3.40	75.00	25.00	50.00	.....
20 to 25	82	115	[b] 197	[b] 13.61	41.62	58.38	.....	16.66	25	11	[b] 36	[b] 5.10	69.44	30.56	38.88	.....
25 to 30	[c] 55	99	[b] 154	[b] 10.65	35.71	64.28	.....	28.57	[c] 9	9	[b] 18	[b] 2.55	50.00	50.00	.....	.....
30 to 35	[c] 49	45	[b] 94	[b] 6.50	52.13	47.87	4.26	.....	[c] 18	8	[b] 26	[b] 3.68	69.23	30.77	38.46	.....
35 to 40	[c] 70	72	[b] 142	[b] 9.81	49.30	50.70	.....	1.40	[c] 19	17	[b] 36	[b] 5.10	52.78	47.22	5.56	.....
40 to 45	[c] 50	50	[b] 100	[b] 6 91	50.00	50.00	.....	.....	[c] 24	9	[b] 33	[b] 4.67	72.73	27.27	45.46	.....
45 to 50	[c] 35	49	[b] 84	[b] 5.80	41.67	58.33	.....	16.66	[c] 26	7	[b] 33	[b] 4.67	78.79	21.21	57.58	.....
50 to 55	[c] 39	25	64	4.42	60.94	39.06	21.88	[d]	[c] 19	13	32	4.53	59.38	40.62	18.76	[d]
55 to 60	33	27	60	4.15	55.00	45.00	10.00	.....	17	10	27	3.82	62.96	37.04	25.92	.....
60 to 65	[c] 52	33	[b] 85	[b] 5.88	61.18	38.82	22.36	.....	[c] 24	14	[b] 38	[b] 5.38	63.16	36.84	26.32	.....
65 to 70	32	32	64	4.42	50.00	50.00	.....	.....	21	15	36	5.10	58.33	41.67	16.66	.....
70 to 75	31	30	61	4.22	50.82	49.18	1.64	[d]	17	12	29	4.11	58.62	41.38	17.24	[d]
75 to 80	12	10	22	1.52	54.55	45.45	9.10	.....	10	4	14	1.98	71.43	28.57	42.86	.....
80 and over	5	5	10	.69	50.00	50.00	.....	.....	7	3	10	1.42	70.00	30.00	40.00	.....
Unknown	10	11	21	1.45	47.62	52.38	.....	4.76	7	2	9	1.28	77.78	22.22	55.56	.....
Average [a]	33.88	45.00	83.88	5.80	47.26	52.74	.....	.....	24.04	16.06	41.00	5.81	62.79	37.21	.....	.....

[a] Of 17 periods of 5 years each, unknown ages excluded.
[b] *More* than an average number and per cent. of deaths from consumption and *less* than an average number and per cent. of deaths from pneumonia, and *vice versa*.
[c] *More* than an average number of deaths of males from consumption and *less* than an average number of deaths of males from pneumonia, and *vice versa*.
[d] *More* than an average proportion of males from consumption and *less* than an average proportion of males from pneumonia, and *vice versa*.

TABLE XXIV.—*Exhibiting, for the State and Eleven Geographical Divisions in 1873, by Sex, the Number of Deaths returned as having occurred from All Causes, from Consumption, from Pneumonia, from Typhoid Fever, and from Intermittent Fever; also the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, and Intermittent Fever to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.[a]	SEX.	Deaths, All Causes, 1873.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.	
			Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
STATE.....[b]	Total.....	14,258	1,447	10.15	706	4.95	677	4.75	[d] 73	.51
	Males.....	7,651	671	8.77	431	5.63	385	5.03	33	.43
	Females...	6,590	776	11.78	275	4.17	292	4.43	40	.61
	Unknown.	17	.....	.....	.....	.....	.....	.....	.....	.....
Upper Peninsula	Total.....	659	39	5.92	28	4.25	35	5.31	1	.15
	Males.....	409	26	6.36	19	4.65	26	6.36	.....	.....
	Females...	250	13	5.20	9	3.60	9	3.60	1	.40
Northwestern	Total.....	261	21	[c] 8.05	13	[c] 4.98	9	3.45	.....	.....
	Males.....	161	8	4.97	11	6.83	4	2.48	.....	.....
	Females...	100	13	13.00	2	2.00	5	5.00	.....	.....
Northern.....	Total.....	118	10	[c] 8.47	8	[c] 6.78	3	2.54	2	1.69
	Males.....	57	4	7.02	3	5.26	1	1.75	2	3.51
	Females...	61	6	9.84	5	8.20	2	3.28	.....	.....
Northeastern.	Total.....	131	6	4.58	3	2.29	5	3.82	.....	.....
	Males.....	73	5	6.85	1	1.37	3	4.11	.....	.....
	Females...	55	1	1.82	2	3.64	2	3.64	.....	.....
	Unknown.	3	.....	.....	.....	.....	.....	.....	.....	.....
Western.....	Total.....	1,660	159	9.58	76	4.58	77	4.64	19	1.14
	Males.....	894	67	7.49	50	5.59	40	4.47	10	1.12
	Females...	765	92	12.03	26	3.40	37	4.84	9	1.18
	Unknown.	1	.....	.....	.....	.....	.....	.....	.....	.....
NorthernCentral	Total.....	248	23	[c] 9.27	15	[c] 6.05	9	3.63	4	1.61
	Males.....	146	10	6.85	10	6.85	5	3.42	2	1.37
	Females...	102	13	12.75	5	4.90	4	3.92	2	1.96
Bay and Eastern.	Total.....	2,235	197	[c] 8.81	117	[c] 5.23	92	4.12	10	.45
	Males.....	1,172	98	8.36	66	5.63	56	4.78	4	.34
	Females...	1,059	99	9.35	51	4.82	36	3.40	6	.57
	Unknown.	4	.....	.....	.....	.....	.....	.....	.....	.....

[a] For counties included in each division see page 174.

[b] For counties and townships from which no returns of deaths in 1873 were received, see Exhibit H, pages 146 to 147; for those in which no deaths occurred, see Exhibit I, page 148.

[c] More than an average per cent. of deaths from consumption and less than an average per cent. of deaths from pneumonia, and *vice versa*. This is the case in six out of the eleven geographical divisions.

[d] Includes 2 deaths from worm fever and 15 from worm fits.

TABLE XXIV.—CONTINUED.

GEOGRAPHICAL DIVISIONS.	SEX.	Deaths, All Causes, 1873.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.*	
			Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
Central	Total	2,312	226	a 9.78	134	a 5.80	136	5.88	10	.43
	Males	1,193	79	6.62	80	6.71	80	6.71	6	.50
	Females	1,116	147	13.17	54	4.84	56	5.02	4	.36
	Unknown	3								
Southwestern	Total	1,446	151	10.44	99	6.84	57	3.94	8	.55
	Males	742	72	9.70	53	7.14	35	4.72	3	.40
	Females	704	79	11.22	46	6.53	22	3.13	5	.71
Southern Central	Total	2,498	310	12.41	137	5.48	142	5.68	6	.24
	Males	1,337	147	10.99	89	6.66	73	5.46	1	.07
	Females	1,158	163	14.08	48	4.15	69	5.96	5	.43
	Unknown	3								
Southeastern	Total	2,690	305	a 11.34	76	a 2.83	112	4.12	13	.48
	Males	1,467	155	10.57	49	3.34	62	4.23	5	.34
	Females	1,220	150	12.30	27	2.21	50	4.09	8	.66
	Unknown	3								

a More than an average per cent. of deaths from consumption, and less than an average per cent. of deaths from pneumonia, and *vice versa*. This is the case in six out of the eleven geographical divisions.

Table XXV. permits of a study of the distribution, by counties, of three of the most important diseases, and also of intermittent fever, which still causes a few deaths in Michigan. Though comparatively of small consequence as a cause of death, intermittent fever is yet of consequence as a cause of sickness and of much unhappiness; it will be seen that the excessive proportions of deaths from that disease were in the new counties of Antrim, Isabella, and Kalkaska.

Typhoid fever may be studied in Table XXV., so far as relates to its distribution, and it may be seen that considering all the 68 counties, in rather less than one-half of them the proportion of deaths from this disease was greater than the average; excluding 26 of the new and sparsely settled counties, just one-half of the 41 remaining counties had a greater than the average proportion of deaths from typhoid fever; but selecting, from these 41 counties, 30 counties in which the water supply is believed to be entirely or mainly from wells, or from a source not free from liability to contamination, it is found that the proportion of deaths from typhoid fever is greater than the average in just two-thirds of these counties. Whether or not this greater than average proportion of deaths from typhoid fever in counties having such water-supply is simply an accidental relation, remains for further investigation; but the evidence coincides with what has heretofore been learned concerning this disease.

TABLE XXV.—*Exhibiting for the State and by Counties, for the Year 1873, the Number of Deaths returned as having occurred from All Causes, from Consumption, from Pneumonia, from Typhoid Fever, and from Intermittent Fever; also, the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, and Intermittent Fever to Deaths from All Causes.*

STATE AND COUNTIES.	Deaths, All Causes, 1873.	Consumption.		Pneumonia.		Typhoid Fever.		Intermit. Fever.	
		Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	PerCent. to Deaths from All Causes.
State	14,258	1,447	10.15	706	4.95	677	4.75	[a] 73	.51
Alcona	17	.....	.....	.....	.....	.....	.....	.....	.....
Allegan	453	37	8.17	31	6.84	22	4.86	5	1.10
Alpena	44	3	6.82	1	2.27	.....	.....	.....	.....
Antrim [b]	26	3	11.54	5	19.23	.....	.....	1	3.85
Barry	250	22	8.80	15	6.00	15	6.00	2	.80
Bay	279	26	9.32	16	5.73	2	.72	5	1.79
Benzie [b]	26	1	3.85	3	11.54	1	3.85	.....	.....
Berrien	461	47	10.19	34	7.38	19	4.12	2	.43
Branch	219	25	11.42	11	5.02	11	5.02	1	.46
Calhoun	388	50	12.88	15	3.87	19	4.90	.....	.....
Cass	175	24	13.71	9	5.14	8	4.57	.....	.....
Charlevoix [b]	18	3	16.67	.....	.....	.....	.....	.....	.....
Cheboygan	22	.....	.....	1	4.55	2	9.09	.....	.....
Chippewa [b]	21	2	9.52	4	19.05	.....	.....	.....	.....
Clare [b]	21	1	4.76	1	4.76	.....	.....	.....	.....
Clinton	194	23	11.86	7	3.61	18	9.28	.....	.....
Delta [c]	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eaton	285	26	9.12	18	6.32	24	8.42	2	.70
Emmet	35	4	11.43	.....	.....	.....	.....	.....	.....
Genesee	343	38	11.08	22	6.41	13	3.79	.....	.....
Grand Traverse	41	2	4.88	3	7.32	.....	.....	.....	.....
Gratiot	143	4	2.80	11	7.69	16	11.19	.....	.....
Hillsdale	317	42	13.25	14	4.42	13	4.10	2	.63
Houghton	214	21	9.81	5	2.34	2	.93	.....	.....
Huron	113	13	11.50	2	1.77	4	3.54	.....	.....
Ingham	242	18	7.44	13	5.37	21	8.68	1	.41
Ionia	258	29	11.24	13	5.04	10	3.88	2	.78
Iosco [b]	68	3	4.41	2	2.94	5	7.35	.....	.....
Isabella [b]	69	13	18.84	2	2.90	.....	.....	4	5.80
Jackson	333	27	8.11	25	7.51	25	7.51	1	.30
Kalamazoo	275	38	13.82	16	5.82	7	2.55		.36
Kalkaska [b]	17	.....	.....	2	11.76	1	5.88	1	5.88

[a] Includes 2 deaths from Worm Fever, and 15 from Worm Fits. [b] For townships not represented by returns of deaths in 1873, see pages 146 to 147. [c] No returns to this Department.

TABLE XXV.—CONTINUED.

COUNTIES.	Deaths, All Causes, 1873.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMIT. FEVER.	
		Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	PerCent. to Deaths from All Causes.	Number of Deaths.	PerCent. to Deaths from All Causes.
Kent	700	79	11.29	32	4.57	32	4.57	8	1.14
Keweenaw[a]	63	2	3.17	2	3.17	3	4.76	.....	.....
Lake	19	1	5.36	1	5.26	.....	.....	.....	.....
Lapeer	298	28	9.40	25	8.39	17	5.70	1	.34
Leelanaw	46	5	10.87	2	4.35	1	2.17	.....	.....
Lenawee	406	55	13.55	24	5.91	24	5.91	1	.25
Livingston	168	20	11.90	10	5.95	5	2.98	1	.60
Mackinac	21	2	9.52	.....	.....	.....	.....	.....	.....
Macomb	278	36	12.95	5	1.80	13	4.68	.....	.....
Manistee[a]	101	8	7.92	3	2.97	4	3.96	.....	.....
Manitou[a]	7	.....	.....	.....	.....	.....	.....	.....	.....
Marquette	255	7	2.75	15	5.88	22	8.63	1	.39
Mason[a]	57	5	8.77	6	10.53	2	3.51	.....	.....
Mecosta	92	7	7.61	9	9.78	5	5.43	.....	.....
Menominee	45	1	2.22	.....	.....	5	11.11	.....	.....
Midland[a]	66	2	3.03	3	4.55	4	6.06	.....	.....
Missaukee	7	.....	.....	.....	.....	1	14.29	.....	.....
Monroe	244	34	13.93	9	3.69	9	3.69	.....	.....
Montcalm[a]	238	24	10.08	11	4.62	10	4.20	2	.84
Muskegon[a]	229	27	11.79	5	2.18	11	4.80	4	1.75
Newaygo[a]	103	5	4.85	5	4.85	7	6.80	1	.97
Oakland	304	38	12.50	11	3.62	16	5.26	1	.33
Oceana	108	9	8.33	3	2.78	3	2.78	1	.93
Ontonagon[a]	23	3	13.04	2	8.70	2	8.70	.....	.....
Osceola[a]	68	6	8.82	.....	.....	5	7.35	1	1.47
Ottawa	376	27	7.18	24	6.38	17	4.52	4	1.06
Presque Isle[a]	2	.....	.....	.....	.....	.....	.....	.....	.....
Saginaw	664	55	8.28	28	4.22	36	5.42	2	.30
Sanilac	176	20	11.36	7	3.98	4	2.27	1	.57
Schoolcraft	17	1	5.88	.....	.....	1	5.88	.....	.....
Shiawassee	191	22	11.52	14	7.23	4	2.09	.....	.....
St. Clair	494	46	9.31	20	4.05	13	2.63	.....	.....
St. Joseph	201	25	12.44	14	6.97	11	5.47	.....	.....
Tuscola	211	9	4.27	19	9.00	16	7.58	1	.47
Van Buren	357	43	12.04	25	7.00	8	2.24	1	.28
Washtenaw	359	48	13.37	18	5.01	32	8.91	.....	.....
Wayne	1,864	197	10.57	51	2.74	74	3.97	12	.64
Wexford[a]	33	5	15.15	2	6.06	2	6.06	.....	.....

[a] *For townships not represented by returns of deaths in 1873, see pages 146 to 147.*

TABLE XXVI.—*Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths returned as having occurred at All Ages, from Old Age, of all Aged 70 Years and Over, and of all Aged Under 5 Years; also, the Per Cent. of Deaths from Old Age, of all Aged 70 and Over and of all Aged Under 5 to Deaths at all Ages, for the Year 1873*

STATE AND GEOGRAPHICAL DIVISIONS.[a]	SEX.	Deaths, All Ages,—1873.	Old Age.		Aged 70 and Over.		Aged Under 5.	
			Number of Deaths.	Per Cent. to Deaths at all Ages.	Number of Deaths.	Per Cent. to Deaths at all Ages.	Number of Deaths.	Per Cent. to Deaths at all Ages.
STATE[b]	Total	14,258	428	3.00	1,214	8.51	5,899	41.37
	Males	7,651	226	2.95	711	9.29	3,249	42.46
	Females	6,590	202	3.07	503	7.63	2,634	39.97
	Unknown	17	.....	.....	.....	.....	16	94.12
Upper Peninsula	Total	659	11	1.67	18	2.73	387	58.73
	Males	409	8	1.96	13	3.18	222	54.28
	Females	250	3	1.20	5	2.00	165	66.00
Northwestern	Total	261	6	2.30	10	3.83	143	50.96
	Males	161	3	1.86	6	3.72	90	55.90
	Females	100	3	3.00	4	4.00	53	53.00
Northern	Total	118	6	5.08	8	6.78	57	48.31
	Males	57	2	3.51	4	7.02	26	45.61
	Females	61	4	6.56	4	6.56	31	50.82
Northeastern	Total	131	.....	.....	.....	.....	75	57.25
	Males	73	.....	.....	.....	.....	37	50.68
	Females	55	.....	.....	.....	.....	36	65.45
	Unknown	3	.....	.....	.....	.....	2	66.67
Western	Total	1,660	51	3.07	127	7.65	789	47.53
	Males	894	26	2.91	68	7.73	454	50.78
	Females	765	25	3.27	59	7.71	334	43.66
	Unknown	1	.....	.....	.....	.....	1	100.00
Northern Central	Total	248	2	.81	6	2.42	135	54.43
	Males	146	1	.68	4	2.74	83	56.85
	Females	102	1	.98	2	1.96	52	50.98
Bay and Eastern	Total	2,235	45	2.01	118	5.28	1,065	47.65
	Males	1,172	26	2.22	70	5.97	563	48.04
	Females	1,059	19	1.79	48	4.53	498	47.03
	Unknown	4	.....	.....	.....	.....	4	100.00
Central	Total	2,312	79	3.42	233	10.08	846	36.59
	Males	1,193	45	3.77	135	11.32	456	38.22
	Females	1,116	34	3.05	98	8.78	387	34.68
	Unknown	3	.....	.....	.....	.....	3	100.00

[b] For counties included in each Division, see page 174.
[a] For counties and townships from which no returns of deaths in 1873 were received, see Exhibit I, pages 146-147; for those in which no deaths occurred, see Exhibit I, page 148.

TABLE XXVI.—CONTINUED.

GEOGRAPHICAL DIVISIONS.[a]	SEX.	Deaths, All Ages,—1873.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
			Number of Deaths.	Per Cent. to Deaths at all Ages.	Number of Deaths.	Per Cent. to Deaths at all Ages.	Number of Deaths.	Per Cent. to Deaths at all Ages.
Southwestern	Total	1,446	32	2.21	116	8.02	545	37.69
	Males	742	15	2.02	64	8.63	309	41.64
	Females	704	17	2.41	52	7.39	236	33.52
Southern Central	Total	2,498	108	4.32	342	13.69	705	28.22
	Males	1,337	62	4.64	215	16.08	389	29.09
	Females	1,158	46	3.97	127	10.97	313	27.03
	Unknown	3	.....	.....	.....	.....	3	100.00
Southeastern	Total	2,690	88	3.27	236	8.71	1,152	42.83
	Males	1,467	38	2.52	132	9.00	620	42.26
	Females	1,220	50	4.10	104	8.52	529	43.36
	Unknown	3	.....	.....	.....	.....	3	100.00

[a] For counties included in each Division, see page 174

TABLE XXVII.—*Exhibiting, for the State and Counties of Michigan, the Average Age of Inhabitants of each Sex, in 1870, the Number of Deaths returned as having occurred at All Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5, in 1873; also the Per Cent. of Deaths from Old Age, of all Aged 70 and Over, and of all Aged Under 5 to Deaths at All Ages.*

STATE AND COUNTIES.	Average Age of Inhabitants, June 1, 1870.		All Ages.	Old Age.		Aged 70 and Over.		Aged Under 5.	
	Males.	Females.	Number of Deaths in 1873.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.
State	24.91	23.68	14,258	428	3.00	1,214	8.51	5,899	41.37
Alcona	23.26	20.65	17	.....	.....	.....	.....	11	64.71
Allegan	24.11	23.26	453	17	3.75	43	9.49	165	36.42
Alpena	23.46	21.04	44	.....	.....	.....	.....	28	63.64
Antrim[a]	23.29	21.84	26	4	15.38	2	7.69	6	23.08
Barry	24.74	23.56	250	8	3.20	40	16.00	83	33.20
Bay	23.42	21.12	279	4	1.43	9	3.23	166	59.50
Benzie[a]	25.84	22.28	26	1	3.85	1	3.85	15	57.69
Berrien	24.71	23.26	461	4	.87	24	5.21	185	40.13
Branch	26.67	25.58	219	11	5.02	33	15.07	65	29.68
Calhoun	26.42	25.48	388	15	3.87	52	13.40	106	27.32
Cass	24.93	24.06	175	1	.57	18	10.29	59	33.71
Charlevoix[a]	23.25	21.20	18	.....	.....	1	5.56	9	50.00
Cheboygan	22.37	20.62	22	.....	.....	1	4.55	12	54.55
Chippewa[a]	23.35	23.17	21	.....	.....	1	4.76	12	57.14
Clare[a]	27.50	21.96	21	.....	.....	.....	.....	13	61.90
Clinton	24.59	23.48	194	4	2.06	16	8.25	78	40.21
Delta[a]	24.45	19.27	.....	.....	.....	.....	.....	.....	.....
Eaton	25.43	24.05	285	9	3.16	32	11.23	97	34.04
Emmet	23.33	24.00	35	1	2.86	3	8.57	22	62.86
Genesee	25.72	24.55	343	12	3.50	28	8.16	135	39.36
Grand Traverse	23.54	21.93	41	2	4.88	3	7.32	14	34.15
Gratiot	23.35	21.92	143	2	1.40	3	2.10	63	44.06
Hillsdale	26.51	25.29	317	8	2.52	48	15.14	91	28.71
Houghton	21.64	19.34	214	3	1.40	4	1.87	144	67.29
Huron	22.49	20.21	113	2	1.77	5	4.42	54	47.79
Ingham	25.09	24.38	242	9	3.72	28	11.57	91	37.60
Ionia	25.16	24.07	258	11	4.26	24	9.30	97	37.60
Iosco[a]	23.99	21.09	68	.....	.....	.....	.....	36	52.94
Isabella[a]	23.39	20.49	69	1	1.45	2	2.90	33	47.83
Jackson	26.71	24.99	333	15	4.50	34	10.21	92	27.63
Kalamazoo	25.94	25.10	275	11	4.00	30	10.91	88	32.00
Kalkaska[a]	24.38	18.83	17	1	5.88	1	5.88	8	47.06
Kent	25.32	24.00	700	30	4.29	70	10.00	317	45.29

[a] Except of counties and townships not represented by returns of deaths, for which see Exhibit H, pages 146—147. The *statement* of average age is of all inhabitants of the State.

TABLE XXVII.—CONTINUED.

COUNTIES.	Average Age of Inhabitants, June 1, 1870.		All Ages.	Old Age.		Aged 70 and Over.		Aged Under 5.	
	Males.	Females.	Number of Deaths in 1873.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.
Keweenaw[a]	21.98	19.03	63	.....	.....	3	3.17	29	26.03
Lake	24.01	20.68	19	.....	.....	1	5.26	13	68.42
Lapeer	24.57	23.10	298	9	3.02	26	8.72	120	40.27
Leelanaw	23.40	21.64	46	1	2.17	2	4.35	28	60.87
Lenawee	27.03	26.15	406	19	4.68	74	18.23	112	27.59
Livingston	26.01	24.93	168	15	8.93	39	2.32	32	19.05
Mackinac	22.94	21.63	21	4	19.05	4	19.05	7	33.33
Macomb	25.31	24.38	278	9	3.24	42	15.11	105	37.77
Manistee[a]	23.55	20.87	101	2	1.98	4	3.96	65	64.36
Manitou[a]	22.49	20.13	7	.....	.....	.....	.....	1	14.29
Marquette	23.04	20.00	255	2	.78	3	1.18	139	54.51
Mason[a]	24.27	21.27	57	.....	.....	1	1.75	32	56.14
Mecosta	23.86	20.97	92	1	1.09	3	3.26	49	53.26
Menominee	23.79	19.42	45	.....	.....	.....	.....	34	75.56
Midland[a]	24.14	21.58	66	.....	.....	1	1.52	40	60.61
Missaukee	26.05	21.70	7	.....	.....	.....	.....	4	57.14
Monroe	24.12	23.28	244	11	4.51	29	11.89	97	39.75
Montcalm[a]	23.64	22.45	238	5	2.10	6	2.52	101	42.44
Muskegon[a]	24.09	22.00	229	7	3.06	13	5.68	116	50.66
Newaygo[a]	23.51	21.50	103	1	.97	6	5.83	53	51.46
Oakland	26.57	25.81	304	11	3.62	50	16.45	75	24.67
Oceana	24.03	22.57	108	1	.93	4	3.70	53	49.07
Ontonagon[a]	21.07	19.25	23	2	8.70	3	13.04	10	43.48
Osceola[a]	23.27	20.52	68	.....	.....	.....	.....	40	58.82
Ottawa	23.95	22.19	376	12	3.19	32	8.51	165	43.88
Presque Isle[a]	25.13	19.38	2	.....	.....	.....	.....	.....	.....
Saginaw	23.81	21.62	664	5	.75	17	2.56	334	50.30
Sanilac	22.30	20.62	176	3	1.70	12	6.82	76	43.18
Schoolcraft	24.07	19.49	17	.....	.....	.....	.....	12	70.59
Shiawassee	24.69	23.67	191	4	2.09	17	8.90	69	36.13
St. Clair	23.61	22.26	494	18	3.64	35	7.09	217	43.93
St. Joseph	25.85	24.75	201	6	2.99	17	8.46	61	30.35
Tuscola	23.53	21.99	211	4	1.90	14	6.64	98	46.45
Van Buren	25.24	23.90	357	10	2.80	31	8.68	136	38.10
Washtenaw	26.36	25.82	359	23	6.41	54	15.04	90	25.07
Wayne	24.37	23.54	1,864	57	3.06	115	6.17	875	46.94
Wexford[a]	24.66	22.07	33	.....	.....	.....	.....	16	48.48

[a] Except of counties and townships not represented by returns of deaths, for which see *Exhibit H, pages* 146—147. The statement of average age is of all inhabitants of the State.

TABLE XXVIII.—*Exhibiting, for the Year and Months, by Sex, the Conjugal Condition, Occupation, and Age in Periods of Years, of all returned as having died from Consumption in Michigan during the Year ending December 31, 1873.*

Months, 1873.												Year, 1873.	Conjugal Condition.	Sex and Occupation.	Ages in Periods of Years.																				
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.					Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
89	116	122	116	131	118	130	120	132	130	115	117	11	1,447	Total.....	Total Deaths from Consumption.		117	20	37	115	197	154	94	142	100	84	64	60	85	64	61	22	10	21
46	68	63	65	81	70	69	57	57	72	65	62	8	783	Married...			....	..	..	10	81	102	69	115	84	68	47	49	51	43	37	14	3	10
34	39	47	40	38	35	46	49	53	42	36	40	2	501	Single.....			117	20	37	101	114	41	20	19	7	4	5	3	3	4	4	..	..	2
7	6	11	8	6	5	12	11	16	14	11	13	1	121	Widowed..			....	..	..	1	1	5	4	2	5	10	9	7	23	16	19	7	7	5
2	3	1	3	6	8	3	3	6	2	3	2	..	42	Unknown.			....	..	..	3	1	6	1	6	4	2	3	1	8	1	1	1	..	4
56	66	68	59	64	63	73	65	74	66	60	55	7	776	Total.....	Females.		59	14	23	77	115	99	45	72	50	49	25	27	33	32	30	10	5	11
29	41	34	33	42	41	43	30	31	38	35	30	6	433	Married...			....	..	..	10	70	72	40	60	44	40	14	24	17	18	14	4	..	6
22	19	25	20	16	15	21	29	29	19	15	17	..	247	Single.....			59	14	23	64	44	21	3	9	3	2	2	..	..	2	1	..	..	..
3	5	9	5	4	4	8	6	11	9	8	7	1	80	Widowed..			....	..	..	1	1	3	1	1	2	7	7	3	13	12	15	6	5	3
2	1	....	1	2	3	1	....	3	....	2	1	..	16	Unknown.			....	..	..	2	....	3	1	2	1	..	2	..	3	..	..	..	..	2
33	50	54	57	67	55	57	55	58	64	55	62	4	671	Total.....	Males.		58	6	14	38	82	55	49	70	50	35	39	33	52	32	31	12	5	10
17	27	29	32	39	29	26	27	26	34	30	32	2	350	Married...			....	..	..	....	11	30	29	55	40	28	33	25	34	25	23	10	3	4
12	20	22	20	22	20	25	20	24	23	21	23	2	254	Single.....			58	6	14	37	70	20	17	10	4	2	3	3	3	2	3	..	..	2
4	1	2	3	2	1	4	5	5	5	3	6	..	41	Widowed..			....	..	..	....	....	2	3	1	3	3	2	4	10	4	4	1	2	2
..	2	1	2	4	5	2	3	3	2	1	1	..	26	Unknown.			....	..	..	1	1	3	..	4	3	2	1	1	5	1	1	1	..	2
28	24	33	16	26	23	32	25	28	29	29	26	3	322	Total.....	Occupations Unknown, Total.		....	15	20	47	36	36	15	28	24	18	13	13	16	13	12	4	2	10
14	13	12	7	13	10	13	7	10	13	18	14	1	145	Married...			....	..	..	2	15	20	13	26	18	14	7	10	4	5	6	2	..	3
11	7	17	7	9	7	12	15	11	10	6	9	2	123	Single.....			....	15	20	41	21	13	2	1	3	1	2	2	..	..	1	..	..	1
2	3	4	1	1	2	5	1	4	4	4	1	..	32	Widowed..			....	..	..	1	....	....	..	....	1	2	3	..	7	7	5	2	2	2
1	1	....	1	3	4	2	2	3	2	1	2	..	22	Unknown.			....	..	..	3	....	3	..	1	2	1	1	1	5	1	..	..	..	4

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1873.*

MONTHS, 1873.													YEAR, 1873.	CONJUGAL CONDITION.	SEX AND OCCUPATION.	AGES IN PERIODS OF YEARS.																				
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
23	21	25	12	22	18	26	20	24	21	21	20	1	254	Total.....		....	10	12	38	32	32	12	23	21	15	9	9	10	11	9	4	2	5
13	12	9	5	13	9	13	6	9	10	12	11	1	123	Married...	Occupations	....	..	..	2	15	20	11	21	16	12	4	9	1	4	4	2	..	2
8	5	13	6	6	5	8	13	8	7	4	7	..	90	Single.....	Unknown,	....	10	12	33	17	11	1	1	3	1	1	..	..	..	..	..	..	..
1	3	3	1	1	2	5	1	4	4	4	1	..	30	Widowed..	Females.	....	..	..	1	....	....	..	....	1	2	3	..	6	7	5	2	2	1
1	1	....	....	2	2	....	..	3	....	1	1	..	11	Unknown.		....	..	..	2	....	1	..	1	1	..	1	..	3	..	..	..	..	..	2
5	3	8	4	4	5	6	5	4	8	8	6	2	68	Total.....		....	5	8	9	4	4	3	5	3	3	4	4	6	2	3	..	..	5
1	1	3	2	....	1	..	1	1	3	6	3	..	22	Married...	Occupations	....	..	..	....	....	....	2	5	2	2	3	1	3	1	2	..	..	1
3	2	4	1	3	2	4	2	3	3	2	2	2	33	Single.....	Unknown,	....	5	8	8	4	2	1	....	....	..	1	2	..	..	1	..	..	1
1	..	1	....	....	....	..	..	....	....	..	..	..	2	Widowed..	Males.	....	..	..	....	....	....	..	....	....	..	..	..	..	1	..	..	..	..	1
..	..	....	1	1	2	2	2	....	2	..	1	..	11	Unknown.		....	..	..	1	....	2	..	....	1	1	..	1	2	1	..	..	..	..	2
61	92	89	100	105	95	98	95	104	101	86	91	8	1,125	Total.....		117	5	17	68	161	118	79	114	76	66	51	47	69	51	49	18	8	11
32	55	51	58	68	60	56	50	47	59	47	48	7	638	Married...	All Specified	....	..	..	8	66	82	56	89	66	54	40	39	47	38	31	12	3	7
23	32	30	33	29	28	34	34	42	32	30	31	..	378	Single.....	Occupations,	117	5	17	60	93	28	18	18	4	3	3	1	3	4	3	..	..	1
5	3	7	7	5	3	7	10	12	10	7	12	1	89	Widowed..	Total.	....	..	..	....	1	5	4	2	4	8	6	7	16	9	14	5	5	3
1	2	1	2	3	4	1	1	3	....	2	..	..	20	Unknown.		....	..	..	....	1	3	1	5	2	1	2	..	3	..	1	1	..	..
33	45	43	47	42	45	47	45	50	45	39	35	6	522	Total.....		59	4	11	39	83	67	33	49	29	34	16	18	23	21	21	6	3	6
16	29	25	28	29	32	30	24	22	28	23	19	5	310	Married...	Specified Occupations,	....	..	..	8	55	52	29	39	28	28	10	15	16	14	10	2	..	4
14	14	12	14	10	10	13	16	21	12	11	10	..	157	Single.....	Females.	59	4	11	31	27	10	2	8	....	1	1	..	..	2	1	..	..	..
2	2	6	4	3	2	3	5	7	5	4	6	1	50	Widowed..	(Class XII.)	....	..	..	....	1	3	1	1	1	5	4	3	7	5	10	4	3	2
1	....	....	1	....	1	1	....	....	....	1	..	..	5	Unknown.		....	..	..	....	....	2	1	1	....	..	1	..	..	..	..	..	..	..	..

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TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1873.*

MONTHS, 1873.													YEAR, 1873.	CONJUGAL CONDITION.	SEX AND OCCUPATION.	AGES IN PERIODS OF YEARS.																		
January.	February.	March.	April.	May	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
..	....	2	2	2	1	1	....	1	1	2	3	..	15	Total.....		....	..	..	1	2	3	2	3	1	1	1	..	..	..	..	..	1	..
..	....	1	2	2	1	..	....	1	1	1	2	..	11	Married...	CLASS VI.	....	..	..	....	1	2	2	3	1	1	1	..	..	..	..	..	..	..
..	....	1	....	..	..	1	....	....	....	....	1	..	3	Single.....	Agents, Laborers Abroad, etc.	....	..	..	1	1	1	..	....	....	..	..	..	..	..	..	..	..	..	..
..	....	..	....	..	..	..	....	....	....	1	....	..	1	Widowed..		....	..	..	....	....	....	..	....	....	..	..	..	..	..	..	..	1	..
..	....	..	....	..	..	..	....	....	....	2	....	..	2	Total.....	CLASS VII.	....	..	..	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..
..	....	..	....	..	..	..	....	....	....	1	....	..	1	Married...	Seafaring Men.	....	..	..	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..
..	....	..	....	..	..	..	....	....	....	1	....	..	1	Single.....		....	..	..	1	....	....	..	....	....	..	..	..	..	..	..	..	..	..
..	....	..	....	..	..	..	....	....	....	....	....	..	.....	.....	CLASS VIII.	....	..	..	....	....	....	..	....	....	..	..	..	..	..	..	..	..	..
2	5	1	4	3	3	2	4	4	7	4	2	..	41	Total.....		....	..	..	2	5	7	8	7	5	2	1	1	2	..	..	..	..	1
1	3	..	3	2	1	2	3	2	5	3	1	..	26	Married...	CLASS IX.	....	..	..	....	1	3	5	7	4	2	1	1	1	..	..	..	..	1
1	2	1	1	..	1	..	....	1	2	1	1	..	11	Single.....	Business Men.	....	..	..	2	4	3	2	....	....	..	..	..	..	..	..	..	..	..
..	....	..	....	..	..	..	1	1	....	....	....	..	2	Widowed..		....	..	..	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..
..	....	..	....	1	1	..	....	....	....	....	....	..	2	Unknown..		....	..	..	....	....	1	..	....	....	..	..	..	1	..	..	..	..	..
..	4	1	2	1	1	2	....	3	1	1	....	..	16	Total.....		....	..	2	....	3	....	2	2	1	..	1	1	..	2	..	1	1	..
..	3	..	1	..	1	1	....	....	1	1	....	..	8	Married...	CLASS X.	....	..	..	....	....	....	1	2	1	..	1	..	..	1	..	1	1	..
..	1	1	1	..	..	1	....	2	....	....	....	..	6	Single.....	Professional Men.	....	..	2	....	3	....	1	....	....	..	..	..	..	..	..	..	..	..
..	....	..	....	1	..	..	....	1	....	....	....	..	2	Widowed..		....	..	..	....	....	....	..	....	....	..	..	1	..	1	..	..	..	..

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TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1873.*

MONTHS, 1873.													YEAR, 1873.	CONJUGAL CONDITION.	SEX AND OCCUPATION.	AGES IN PERIODS OF YEARS.																	
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
															CLASS II.—(Continued.)																		
..	....	....	1	....	....	....	1	....	....	.	....	..	2	Married...	Stone-masons.	....	..	..	....	....	1	..	....	....	1	..	..	..	..	..	..	..	..	..
2	5	4	4	8	4	4	1	1	3	4	5	..	45	.....	CLASS III.	....	..	..	3	5	5	4	5	4	3	5	3	3	2	2	1	..	..
..	....	....	....	....	....	1	....	....	....	.	....	..	1	Married...	Bakers.	....	..	..	....	....	1	..	....	....	..	..	..	..	..	..	..	..	..	..
1	2	....	....	1	....	....	1	....	1	1	1	..	8	Total.....	Blacksmiths.	....	..	..	1	....	1	1	....	1	..	..	..	2	1	1	..	..	..
1	1	....	....	1	....	....	1	....	1	1	1	..	7	Married...		....	..	..	....	....	1	1	....	1	..	..	..	2	1	1	..	..	..	..
..	1	....	....	....	....	....	....	....	....	.	....	..	1	Single.....		....	..	..	1	....	.	..	....	....	..	..	..	..	..	..	..	..	..	..
..	....	....	....	....	....	1	....	....	....	.	....	..	1	Single.....	Brewers.	....	..	..	1	....	.	..	....	....	..	..	..	..	..	..	..	..	..	..
..	....	....	....	....	1	....	....	....	....	.	....	..	1	Married...	Cabinet-makers.	....	..	..	....	....	.	..	....	....	..	..	..	..	1	..	..	..	..	..
..	....	....	....	....	....	....	....	....	....	1	....	..	1	Unknown.	Carpet-weavers.	....	..	..	....	....	.	..	....	....	..	1	..	..	..	..	..	..	..	..
..	....	....	....	....	....	....	....	....	....	1	....	..	1	Married...	Carvers.	...	..	..	....	....	.	..	....	1	..	..	..	..	..	..	..	..	..	..
..	....	....	....	....	1	....	....	....	....	.	1	..	2	Total.....	Chair-makers.	....	..	..	1	....	.	..	....	....	1	..	..	..	..	..	..	..	..	..
..	....	....	....	....	....	....	....	....	....	.	1	..	1	Married...		....	..	..	....	....	.	..	....	....	1	..	..	..	..	..	..	..	..	..
..	....	....	....	....	1	....	....	....	....	.	....	..	1	Single.....		....	..	..	1	....	.	..	....	....	..	..	..	..	..	..	..	..	..	..
..	1	....	....	2	....	1	....	1	1	.	....	..	6	Total.....	Coopers.	....	..	..	....	1	.	2	....	1	..	..	1	..	1	..	..	..	..	..
..	1	....	....	....	....	1	....	....	1	.	....	..	3	Married...		....	..	..	....	....	.	..	....	1	..	..	1	..	1	..	..	..	..	..
..	....	....	....	2	....	....	....	1	....	.	....	..	3	Single.....		....	..	..	....	1	.	2	....	....	..	..	..	..	..	..	..	..	..	..
..	....	3	....	....	1	....	....	....	....	.	....	..	4	Married...	Engineers.	....	..	..	....	....	1	1	2	....	..	..	..	..	..	..	..	..	..	..
..	....	....	....	....	....	....	....	....	....	.	1	..	1	Married...	Hotel Waiters.	....	..	..	....	....	.	..	1	....	..	..	..	..	..	..	..	..	..	..
..	....	....	....	....	....	....	....	....	....	1	....	..	1	Married...	Machinists.	....	..	..	....	....	.	..	1	....	..	..	..	..	..	..	..	..	..	..
..	....	....	....	....	1	....	....	....	....	.	....	..	1	Single.....	Mechanics.	....	..	..	....	1	.	..	....	....	..	..	..	..	..	..	..	..	..	..

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TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1873.*

MONTHS, 1873.													YEAR, 1873.	CONJUGAL CONDITION.	SEX AND OCCUPATION.	AGES IN PERIODS OF YEARS.																		
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
..	....	....	1	1	....	....	....	2	....	....	2	..	6	Total.....		....	..	..	....	1	....	..	1	....	1	1	2	..	..	..	..	..	..
..	....	....	1	1	....	....	....	1	....	....	1	..	4	Married...	Tailors.	....	..	..	....	....	....	..	1	....	1	..	2	..	..	..	..	..	..
..	....	....	....	....	....	....	....	1	....	....	....	..	1	Single.....		....	..	..	....	1	....	..	....	....	..	..	..	..	..	..	..	..	..
..	....	....	....	....	....	....	....	....	....	....	1	..	1	Widowed..		....	..	..	....	....	....	..	....	....	..	1	..	..	..	..	..	..	..
..	....	....	....	....	....	....	....	1	....	....	....	..	1	Single.....	Telegraph Operators.	....	..	..	....	1	....	..	....	....	..	..	..	..	..	..	..	..	..
3	10	7	8	7	6	6	12	9	10	4	9	..	91	.....	CLASS V.	....	..	..	9	17	12	7	15	8	5	9	2	1	1	4	..	..	1
..	....	....	....	....	....	....	....	....	1	....	....	..	1	Widowed..	Ditchers.	....	..	..	....	....	....	..	....	....	..	..	..	..	..	1	..	..	..
..	....	....	....	....	....	....	....	....	....	1	....	..	1	Married...	House-keepers.	....	..	..	....	....	....	..	1	....	..	..	..	..	..	..	..	..	..
3	9	7	8	6	6	6	12	8	8	3	8	..	84	Total.....		....	..	..	9	16	12	6	14	7	4	8	2	1	1	3	..	..	1
1	2	4	4	2	2	....	4	5	4	1	3	..	32	Married...		....	..	..	....	1	6	3	6	5	2	8	..	..	1	..	..	..	..
1	6	3	3	3	2	6	7	2	4	2	3	..	42	Single.....	Laborers.	....	..	..	9	15	6	3	5	2	..	..	1	..	..	1	..	..	..
1	1	....	....	1	....	....	1	....	....	....	2	..	6	Widowed..		....	..	..	....	....	....	..	1	....	1	..	1	1	..	1	..	..	1
..	....	....	1	....	2	....	....	1	....	....	....	..	4	Unknown.		....	..	..	....	....	....	..	2	....	1	..	..	..	..	1	..	..	..
..	....	....	....	1	....	....	....	....	1	....	1	..	3	Total.....		....	..	..	....	1	....	1	....	....	1	..	..	..	..	..	..	..	..
..	....	....	....	....	....	....	....	....	1	....	....	..	1	Married...	Miners.	....	..	..	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..
..	....	....	....	1	....	....	....	....	....	....	1	..	2	Single.....		....	..	..	....	1	....	..	....	....	1	..	..	..	..	..	..	..	..
..	1	....	....	....	....	....	....	1	....	....	....	..	2	Total.....		....	..	..	....	....	....	..	....	1	..	1	..	..	..	..	..	..	..
..	....	....	....	....	....	....	....	1	....	....	....	..	1	Married...	Workers in Saw-mill.	....	..	..	....	....	....	..	....	....	..	1	..	..	..	..	..	..	..
..	1	....	....	....	....	....	....	....	....	....	....	..	1	Unknown.		....	..	..	....	....	....	..	....	1	..	..	..	..	..	..	..	..	..
..	....	2	2	2	1	1	....	1	1	2	3	..	15	.....	CLASS VI.	....	..	..	1	2	3	2	3	1	1	1	..	..	..	..	..	1	..
..	....	....	....	....	....	....	....	....	1	....	....	..	1	Married...	Agents.	....	..	..	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..

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TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1873.*

MONTHS, 1873.													YEAR, 1873.	CONJUGAL CONDITION.	SEX AND OCCUPATION.	AGES IN PERIODS OF YEARS.																
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
..	....	..	..		...	....	1	..	....	....	....	.	1	Married ...	Dry Goods Merchants.	....	..	..	....	....	....	....	1	.	..	..	..	..	..	..	..	..
..	....	..	..		...	....	.	..	....	....	1	.	1	Married	Express Agents.	....	..	..	....	....	1	....	..	.	..	..	..	..	..	..	..	..
..	....	..	..		1	....	.	1	1	....	....	.	3	Married	Grocers.	....	..	..	....	....	....	....	2	.	..	..	1	..	..	..	..	..
..	....	..	1		...	....	.	1	1	....	....	.	3	Married ...	Hotel-keepers.	....	..	..	....	....	....	....	1	.	1	..	..	..	..	..	..	1
..	....	..	..	.	...	....	1	..	....	....	....	.	1	Married	Insurance Agents.	....	..	..	....	....	....	....	1	.	..	..	..	..	..	..	..	..
..	....	..	..	1	...	....	.	..	....	....	....	.	1	Unknown.	Landlords.	....	..	..	....	....	....	....	....	.	..	..	1	..	..	..	..	..
..	1	..	..	.	...	....	.	..	....	....	....	.	1	Married ...	Liquor Dealers.	....	..	..	....	....	1	....	....	.	..	..	..	..	..	..	..	..
..	....	..	..	.	1	....	.	1	....	....	....	.	2	Total		....	..	..	....	....	1	..	....	1	..	..	..	..	..	..	..	..
..	....	..	..	.	...	....	.	1	....	....	....	.	1	Widowed ..	Lumber Inspectors.	....	..	..	....	....	....	..	....	1	..	..	..	..	..	..	..	..
..	....	..	..	.	1	.	.	.	....	....	....	.	1	Unknown.		....	..	..	....	....	1	..	....	.	..	..	..	..	..	..	..	..
..	....	..	..	1	.	.	.	.	....	....	....	.	1	Married ...	Lumber Merchants.	....	..	..	.	....	....	1	.	.	..	..	..	..	..	..	..	..
..	....	..	..	.	.	1	1	.	....	....	....	.	2	Married ...	Merchants.	....	..	..	.	....	....	1	1	.	..	..	..	..	..	..	..	..
..	1	..	..	.	.	.	.	.	....	....	....	.	1	Married ...	Mill Owners.	....	..	..	.	....	....	1	.	.	..	..	..	..	..	..	..	..
..	.	..	1	.	.	.	.	.	....	....	.	.	1	Married ...	Restaurant-keepers.	....	..	..	.	....	....	..	.	1	..	..	..	..	..	..	..	..
..	.	..	.	1	.	.	.	.	1	1	.	.	3	Married ...	Saloon-keepers.	....	..	..	.	1	....	..	1	.	.	1	..	..	..	..	..	..
..	.	..	.	.	.	.	.	.	1	....	.	.	1	Married ...	Shoe Merchants.	....	..	..	.	....	1	..	.	.	..	..	..	..	..	..	..	..
..	.	..	1	.	.	.	.	.	....	....	.	.	1	Married ...	Store-keepers.	....	..	..	.	....	....	..	1	.	..	..	..	..	..	..	..	..
..	4	1	2	1	1	2	.	3	1	1	.	.	16	.....	CLASS X.	....	..	2	.	3	....	2	2	1	.	1	1	..	2	..	1	1	..
..	.	..	.	.	1	.	.	.	....	....	.	.	1	Married ...	Attorneys.	....	..	..	.	....	....	..	.	.	.	1	..	..	..	..	..	..	..
..	3	..	..	.	.	1	.	.	....	....	.	.	4	Married ...	Physicians.	....	..	..	.	....	....	..	1	1	.	..	..	1	.	1	..	..	..
..	.	..	1	.	.	.	.	.	....	....	.	.	1	Married ...	Editors.	....	..	..	.	....	....	1	.	.	.	..	..	..	..	..	..	..	..

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TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1873.*

MONTHS, 1873.													YEAR, 1873.	CONJUGAL CONDITION.	SEX AND OCCUPATION.	AGES IN PERIODS OF YEARS.																		
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
1	1	....	2	1	....	....	....	....	....	1	.	..	6	Total.....		....	..	..	5	1	..	....	....	..	..	..	..	..	..	..	..	..	..
..	1	....	1	1	....	....	....	....	....	....	.	..	3	Married...	Dress-makers.	....	..	..	2	1	..	....	....	..	..	..	..	..	..	..	..	..	..
1	....	....	1	..	....	....	....	....	....	1	.	..	3	Single.....		....	..	..	3	....	..	....	....	..	..	..	..	..	..	..	..	..	..
2	2	....	2	3	4	4	4	2	6	4	5	..	38	Total.....		....	..	..	3	3	4	7	7	3	1	2	1	3	3	..	..	1
2	2	....	2	2	4	3	3	1	4	3	3	..	29	Married...	Farmers.	....	..	....	2	3	..	5	7	3	..	1	..	1	2	..	..	1
..	....	....	..	1	....	....	1	....	....	....	.	..	2	Single.....		....	..	....	1	....	..	1	....	..	..	..	..	..	..	..	..	..	..
..	....	....	..	..	....	1	....	1	2	1	2	..	7	Widowed..		....	..	....	.	....	..	1	....	..	1	1	1	2	1	..	..	..	..
..	....	....	..	..	....	2	....	2	....	1	.	..	5	Single.....	Farmers' Daughters.	....	1	3	.	1	..	....	....	..	..	..	..	..	..	..	..	..	..
2	1	3	3	3	3	2	3	4	3	5	.	..	32	Total.....		....	..	....	3	2	3	4	1	3	..	2	3	3	4	1	2	1
1	1	3	3	3	3	2	2	3	2	3	.	..	26	Married...	Farmers' Wives.	....	..	....	3	1	2	4	1	3	..	2	3	3	3	..	..	1
1	....	....	..	..	....	....	1	1	1	1	.	..	5	Widowed..		....	..	....		....	..	....	....	..	..	..	..	..	1	1	2	..
..	....	....	..	..	....	....	....	....	....	1	.	..	1	Unknown.		....	..	....		1	..	....	....	..	..	..	..	..	..	..	..	..	..
12	24	21	21	17	22	19	16	19	22	15	15	4	227	Total.....		....	..	14	37	36	16	24	15	21	13	12	13	11	7	4	1	3
10	18	17	17	13	20	17	13	12	19	13	14	4	184	Married...	House-keepers.	....	..	7	30	33	14	22	15	16	9	11	12	9	2	2	..	2
1	5	1	3	2	....	1	....	4	2	1	2	..	22	Single.....		....	..	7	6	2	2	2	....	1	1	..	..	1	..	..	..	..	..
1	1	3	1	2	2	1	3	3	1	1	2	..	21	Widowed..		....	..	....		1	..	....	....	4	3	1	1	1	5	2	1	1
..	....	....	..	1	....	....	....	....	1	....	.	..	2	Total.....		....	1	....		....	..	....	....	..	..	..	..	..	..	..	..	..	..
..	....	....	..	1	....	....	....	....	....	....	.	..	1	Married...	House Servants.	....	..	....		....	..	....	....	..	..	..	..	..	..	..	..	..	..
..	....	....	..	..	....	....	....	....	1	....	.	..	1	Single.....		....	1	....	....	....	..	....	....	..	..	..	..	..	..	..	..	..	..

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TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1873.*

MONTHS, 1873.													YEAR, 1873.	CONJUGAL CONDITION.	SEX AND OCCUPATION.	AGES IN PERIODS OF YEARS.																					
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
--	1	----	----	----	----	1	----	----	----	----	----	--	2	Total.....	Tailoresses.	----	--	--		1	----	--	----	----	1	--	--	--	--	--	--	--	--
--	1	----	----	----	----	----	----	----	----	----	----	--	1	Married...		----	--	--		----	----	--	----	----	1	--	--	--	--	--	--	--	--
--	----	----	----	----	----	1	----	----	----	----	----	--	1	Single.....		----	--	--		1	----	--	----	----	--	--	--	--	--	--	--	--	--
1	----	1	----	----	----	----	1	5	----	----	2	--	10	Total.....	Teachers.	----	--	--		6	2	--	1	----	1	--	--	--	--	--	--	--	--
--	----	----	----	----	----	----	1	1	----	----	1	--	3	Married...		----	--	--		2	----	--	----	----	1	--	--	--	--	--	--	--	--
1	----	1	----	----	----	----	----	3	----	----	1	--	6	Single.....		----	--	--		4	1	--	1	----	--	--	--	--	--	--	--	1	--
--	----	----	----	----	----	----	----	1	----	----	----	--	1	Widowed..		----	--	--		----	1	--	----	----	--	--	--	--	--	--	--	--	--
9	8	6	13	4	7	12	16	10	11	7	8	1	112	Total.....	Unemployed.[a]	59	4	5	8	11	9	2	1	----	2	--	1	2	1	4	--	--	--
1	1	2	3	----	----	3	3	----	3	2	----	--	18	Married...		----	--	--		3	6	1	3	----	2	--	1	--	--	2	--	--	--
7	7	4	8	4	7	8	12	10	8	5	7	--	87	Single.....		59	4	5	8	8	2	--	1	----	--	--	--	--	--	--	--	--	--
--	----	----	2	----	----	1	1	----	----	----	1	1	6	Widowed..		----	--	--		----	1	--	----	----	--	--	--	2	1	2	--	--	--
1	----	----	----	----	----	----	----	----	----	----	----	--	1	Unknown.		----	--	--		----	----	1	----	----	--	--	--	--	--	--	--	--	--
--	----	1	----	----	----	----	----	----	----	----	----	--	1	Married...	Wash Women.	----	--	--		1	----	--	----	----	--	--	--	--	--	--	--	--	--
--	----	----	----	----	----	1	----	1	----	----	1	--	3	Married...	Wives.	----	--	--		----	1	--	1	1	--	--	--	--	--	--	--	--	--
1	----	----	----	----	----	----	----	----	----	----	----	--	1	Single.....	Writers.	----	--	--		----	----	--	1	----	--	--	--	--	--	--	--	--	--

[a] Includes all under 5 years of age.

EXHIBIT Q.—*The Average Age of the Inhabitants of Michigan, of both Sexes, of each Sex, and the difference between the Sexes, for all Living June 1, 1870, and all returned as having Died during the Year ending June 1, 1870, as Compiled from the U. S. Census of that date; for all returned as having Died from Consumption during the Years 1870, 1872, and 1873; for all returned as having Died from All Causes during the Years 1870, 1871, 1872, and 1873, as shown by the Registration Returns; for all Living Aged Twenty and Over, as per Census, June 1, 1870; for all Aged Twenty and Over whose Ages and Occupations were stated in the Registration Returns of Deaths for the Years 1870, 1871, 1872, and 1873, and for the Native and Foreign born inhabitants returned as having Died during the Year 1873.*

PERSONS.	Year Ending:	Average Age in Years and 100ths of a Year.			
		Total.	Males.	Females.	Excess of Males.
Deaths, as per Census	June 1, 1870.	24.79	25.17	24.39	.78
Living, as per Census	June 1, 1870.	24.32	24.91	23.68	1.23
Deaths as shown by Registration Returns	Dec. 31, 1870.	23.50	24.05	22.89	1.16
Deaths from Consumption, by Registration Returns	Dec. 31, 1870.	34.95	36.89	33.14	3.75
All Living aged 20 and over, per Census	June 1, 1870.	38.23	38.61	37.80	.81
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 31, 1870.	51.01	52.45	45.96	6.49
Deaths as shown by Registration Returns	Dec. 31, 1871.	25.63	26.78	24.50	2.28
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 31, 1871.	51.44	52.79	46.45	6.34
Deaths as shown by Registration Returns	Dec. 31, 1872.	24.17	25.09	23.17	1.92
Deaths from Consumption, by Registration Returns	Dec. 31, 1872.	35.05	39.10	31.19	7.91
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 31, 1872.	50.73	51.90	47.08	4.82
All who died, aged 20 years and over, as shown by Registration Returns	Dec. 31, 1872.	49.72	51.67	47.42	4.25
"Average years of Life" after the age of 20 years, as shown by Table VII., page 97, Report for 1872, plus 20 years, indicating the "Average Age at Death" of all who died aged 20 years and over, according to that Life Table	Dec. 31, 1870.	.....	63.72	62.02	1.70
Deaths as shown by Registration Returns	Dec. 31, 1873.	31.20	31.95	30.14	1.81
Deaths of Native-born inhabitants as shown by Registration Returns	Dec. 31, 1873.	27.25	27.76	26.71	1.05
Deaths of Foreign-born inhabitants as shown by Registration Returns	Dec. 31, 1873.	43.87	40.68	42.35	—1.67
Deaths from Consumption, by Registration Returns	Dec. 31, 1873.	37.81	40.20	35.77	4.43
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 31, 1873.	50.17	56.51	48.27	8.24
All who died aged 20 years and over, as shown by Registration Returns	Dec. 31, 1873.	49.87	51.48	47.66	3.82

Exhibit Q contains a few items previously included in it, and in addition certain details relative to persons who died in Michigan in 1873. The difference between the average age of the inhabitants and the average expectation of life in Michigan was fully explained in the last Report, and need not be repeated here. The average age of the inhabitants, and consequently of those who die, is quite young.

Table XXIX., though not perfect, is a satisfactory one, because its evidence is probably trustworthy; even though not all deaths are reported, and of those reported not all have the age and occupation stated, yet it seems probable that the facts reported are a fair sample of all, so that the teaching of the table is satisfactory. Those reported unemployed seemed to live longest, though this class includes idiots and paupers as well as persons retired from business; cultivators of the earth lived next longest; and next to them professional men, among whom only a few specified occupations were represented by a number sufficient to convey a very good general idea, but the 15 ministers averaged 58.70 years, and the 28 physicians 54.79 years, which was nearly four years (3.78) longer than the average of the professional men as a class, and over ten years longer than the business men as a class.

Progress in civilization and in development may be either a matter of physical vigor or of mental culture. In the highest degree, the two do not necessarily, or perhaps usually go forward together; and yet mental culture may so bear upon the death-rate that the physically less vigorous shall live the longest. There is evidence of the probability of this in the statistics of occupations of decedents, wherein it appears that ministers of the gospel are among the longest lived. It is quite possible also that the children of those who have the best mental culture may stand the best chance of living. We have probable evidence of this in mortality statistics of children in different wards in large cities. It may be suggested that the comparison by wards is affected by all sorts of unsanitary conditions which destroy the poor and the uneducated in greater degree than the refined and educated citizens of more salubrious wards; but the mental culture and refinement is, generally, what decides the place of residence and, in great part, the occupation, and this serves to indicate something as to the means by which mental culture may tend to increase the length of life, and will do so if the governing principles of conduct are good and the mental culture is in that knowledge which Mr. Herbert Spencer has shown to be "of most worth," namely, that which tends to the preservation of life; and just as this greater mental culture may result in a higher physical perfection in the next generation, so this may in turn conduce to higher mental powers and attributes.

TABLE XXIX.—*Exhibiting, by Classified Occupations, the Number of persons returned as having died in 1873, with the Aggregate and Average Ages of all whose Occupations and Ages were returned, of those Aged Twenty Years and Over. One-half of a Year is added to the Age of each Person, in place of Months and Days Excluded.*

Class.	Occupations,—1873.	Number of Persons.	Age.	
			Aggregate.	Average.
	All Specified Occupations	4,960	248,844.00	50.17
I.	Cultivators of the Earth	1,529	87,467.50	57.21
II.	Active Mechanics Abroad	191	9,123.50	47.77
III.	Active Mechanics in Shops	215	10,503.50	48.85
IV.	Inactive Mechanics in Shops	105	5,132.50	48.88
V.	Laborers,—No Special Trades	468	18,783.00	40.13
VI.	Agents, Laborers Abroad, etc.	122	5,177.00	42.43
VII.	Seafaring Men	34	1,311.00	38.56
VIII.	Soldiers			
IX.	Business Men	183	8,129.50	44.42
X.	Professional Men	73	3,723.50	51.01
XI.	Unemployed	73	4,536.50	62.14
XII.	Females	1,967	94,956.50	48.27
I.	Cultivators of the Earth	1,529	87,467.50	57.21
	Farmers	1,478	85,014.00	57.52
	Farm Laborers	27	965.50	35.76
	Fruit Growers	1	58.50	58.50
	Gardeners	13	695.50	53.50
	Retired Farmers	10	734.00	73.40
II.	Active Mechanics Abroad	191	9,123.50	47.77
	Blasters	1	26.50	26.50
	Brick-masons	3	105.50	35.17
	Carpenters	124	5,875.00	47.38
	Carpenters and Joiners	6	252.00	42.00
	Gas-fitters	1	36.50	36.50
	Joiners	8	413.00	51.63
	Masons	16	849.00	53.06
	Painters	21	992.50	47.26
	Ship-carpenters	2	106.00	53.00
	Stone-masons	9	467.50	51.94
III.	Active Mechanics in Shops	215	10,503.50	48.85
	Bakers	8	375.00	46.88
	Blacksmiths	35	1,831.50	52.33

TABLE XXIX.—Continued.

Class.	Occupations,—1873.	Number of Persons.	Age.	
			Aggregate.	Average.
III.	Active Mechanics in Shops—(Continued.)			
	Boiler-makers	2	73.00	36.50
	Brewers	10	493.00	49.30
	Cabinet-makers	7	392.50	56.07
	Carriage Painters	1	39.50	39.50
	Car-makers	1	58.50	58.50
	Carpet-weavers	1	52.50	52.50
	Carvers	1	44.50	44.50
	Chair-makers	3	210.50	70.16
	Cloth-dressers	1	73.50	73.50
	Cooks	3	122.50	40.83
	Coopers	28	1,445.00	51.61
	Engineers	21	824.50	39.26
	Filers in Mills	1	38.50	38.50
	Firemen and Engineers	1	29.50	29.50
	Firemen in State Prison	1	46.50	46.50
	Gunsmiths	3	174.50	58.17
	Ironsmiths	1	58.50	58.50
	Laborers in Paper Mills	1	42.50	42.50
	Laborers in "W. R. Mills"	1	41.50	41.50
	Machinists	10	465.00	46.50
	Manufacturers of Pottery	1	51.50	51.50
	Mechanics	6	312.00	52.00
	Millers	19	936.50	49 29
	Millwrights	3	205.50	68.50
	Moulders	5	141.50	28.30
	Plasterers	1	46.50	46.50
	Potters	1	30.50	30.50
	Retired Blacksmiths	1	87.50	87.50
	Retired Millers	1	67.50	67.50
	Safe-makers	1	21.50	21.50
	Saw-filers	1	74.50	74.50
	Sawyers	5	166.50	33.30
	Shingle-sawyers	1	20.50	20.50
	Soap-makers	2	111.00	55.50
	Stave-makers	1	34.50	34.50
	Stone-cutters	1	36.50	36.50
	Tanners	7	364.50	52.07
	Tinkers	1	23.50	23.50

TABLE XXIX.—CONTINUED.

CLASS.	OCCUPATIONS—1873.	Number of Persons.	AGE.	
			Aggregate.	Average.
III.	ACTIVE MECHANICS IN SHOPS—(Continued.)			
	Tinsmiths	3	88.50	29.50
	Wagon-makers	9	480.50	53.39
	Weavers	2	155.00	77.50
	Wheelwrights	2	115.00	57.50
IV.	INACTIVE MECHANICS IN SHOPS	105	5,132.50	48.88
	Barbers	7	213.50	30.50
	Cigar-makers	4	105.00	26.25
	Foremen in shoe factories	1	32.50	32.50
	Harness-makers	7	321.50	45.93
	Jewelers	2	80.00	40.00
	Merchant tailors	2	86.00	43.00
	Printers	4	161.00	40.25
	"Saw-mill"	1	43.50	43.50
	Shoemakers	58	3,214.00	55.41
	Silversmiths	1	40.50	40.50
	Tailors	14	713.00	50.93
	Telegraph Operators	1	24.50	24.50
	Tobacconists	2	60.00	30.00
	Watch-makers	1	37.50	37.50
V.	LABORERS—NO SPECIAL TRADES	468	18,783.00	40.13
	Ditchers	1	71.50	71.50
	Firemen	3	126.50	42.17
	Hotel Waiters	1	39.50	39.50
	House-keepers	4	167.00	41.75
	Laborers	395	16,079.50	40.71
	Laborers in Pinery	1	22.50	22.50
	Laborers in saw-mills	6	229.00	38.17
	"Mill hand"	2	65.00	32.50
	Miners	49	1,740.50	35.52
	Miscellaneous	1	53.50	53.50
	Raftsmen	1	28.50	28.50
	River Drivers	1	21.50	21.50
	Servants	1	51.50	51.50
	Weighers	1	25.50	25.50
	Well Diggers	1	61.50	61.50

TABLE XXIX.—Continued.

Class.	OCCUPATIONS,—1873.	Number of Persons.	Age.	
			Aggregate.	Average.
VI.	AGENTS, LABORERS ABROAD, ETC.	122	5,177.00	42.43
	Agents	1	34.50	34.50
	Auctioneers	1	82.50	82.50
	Bar-tenders	1	26.50	26.50
	Brakemen	5	129.50	25.90
	Butchers	14	564.00	40.29
	Coachmen	1	22.50	22.50
	Constables	1	49.50	49.50
	Deputy Sheriffs	1	36.50	36.50
	Draymen	7	308.50	44.07
	Drovers	3	214.50	71.50
	Foremen on Lumber yards	1	45.50	45.50
	Foremen in Mills	1	40.50	40.50
	Freight Agents	1	54.50	54.50
	Fruit-tree Agents	1	27.50	27.50
	Hack Drivers	1	24.50	24.50
	Horse Doctors	1	40.50	40.50
	Hunters	2	61.00	30.50
	Livery-keepers	1	47.50	47.50
	Lumbermen	36	1,624.00	45.11
	"Milkmen"	1	55.50	55.50
	Musicians	2	97.00	48.50
	Packers and Trappers	1	47.50	47.50
	Park Overseers	1	80.50	80.50
	Peddlers	3	112.50	37.50
	Policemen	1	36.50	36.50
	Railroad Agents	2	97.00	48.50
	Railroad Baggage-masters	1	23.50	23.50
	Railroad Conductors	4	158.00	39.50
	Railroad Employes	1	25.50	25.50
	Railroad Engineers	3	92.50	30.83
	Railroad Laborers	7	214.50	30.64
	Railroading	1	28.50	28.50
	Railroad Trackmaster	1	62.50	62.50
	Salesmen of Patent Medicine	1	37.50	37.50
	Sextons	1	66.50	66.50
	Station Agents	1	46.50	46.50
	Tax Agents	1	60.50	60.50

TABLE XXIX.—Continued.

Class.	OCCUPATIONS,—1873.	Number of Persons.	Age.	
			Aggregate.	Average.
VI.	AGENTS, LABORERS ABROAD, ETC.—(Continued.)			
	Teamsters	7	290.50	41.50
	Trappers	1	46.50	46.50
	Traveling Agents	1	63.50	63.50
VII.	SEAFARING MEN	34	1,311.00	38.56
	Divers	1	79.50	79.50
	Fishermen	3	143.50	47.83
	Lake Captains	2	99.00	49.50
	Mariners	1	56.50	56.50
	Sailors	27	932.50	34.54
VIII.	SOLDIERS			
IX.	BUSINESS MEN	183	8,129.50	44.42
	Bankers	3	173.50	57.83
	Book-keepers	8	310.00	38.75
	Clerks	32	1,086.00	33.94
	Commission Merchants	1	48.50	48.50
	Confectioners	1	52.50	52.50
	Contractors	1	59.50	59.50
	Druggists	4	142.00	35.50
	Dry goods Merchants	3	129.50	43.17
	Express Agents	2	62.00	31.00
	Fire insurance Agents	1	37.50	37.50
	Fruit Grocers	1	66.50	66.50
	Grocers	11	520.50	47.32
	Hardware Dealers	1	52.50	52.50
	Hatters	1	60.50	60.50
	Hotel-keepers	20	1,029.00	51.45
	Importers	1	30.50	30.50
	Insurance Agents	3	184.50	61.50
	Landlords	2	97.00	48.50
	Liquor Dealers	1	29.50	29.50
	Lumber Dealers	2	99.00	49.50
	Lumber Inspectors	3	121.50	40.50
	Lumber Manufacturers	1	48.50	48.50
	Lumber Merchants	2	98.00	49.00
	Manufacturers	1	51.50	51.50

TABLE XXIX.—Continued.

Class.	OCCUPATIONS,—1873.	Number of Persons.	Age.	
			Aggregate.	Average.
IX.	Business Men—(Continued.)			
	Mill Owners	2	100.00	50.00
	Merchants	30	1,302.00	43.40
	Pawn Brokers	1	43.50	43.50
	Produce Dealers	3	157.50	52.50
	Railroad Clerks	2	55.00	27.50
	Real Estate Dealers	1	53.50	53.50
	Registers of Deeds	1	56.50	56.50
	"Restaurant"	2	88.00	44.00
	Retired Grocers	1	59.50	59.50
	Retired Merchants	2	139.00	69.00
	Salesmen	1	37.50	37.50
	Saloon-keepers	19	835.50	43.97
	Sewing Machine Agents	2	54.00	27.00
	Shoe Merchants	1	27.50	27.50
	Soap Dealers	1	91.50	91.50
	Speculators	1	56.50	56.50
	Tar Dealers	1	49.50	49.50
	Ticket Agents	1	36.50	36.50
	U. S. Collectors	1	59.50	59.50
	U. S. Deputy Marshals	1	42.50	42.50
	Undertakers	1	51.50	51.50
	Woolen Manufacturers	2	143.00	71.50
X.	Professional Men	73	3,723.50	51.01
	Architects	1	60.50	60.50
	Attorneys	1	51.50	51.50
	Civil Engineers	1	40.50	40.50
	Dentists	1	22.50	22.50
	Editors	1	32.50	32.50
	Judges	1	80.50	80.50
	Lawyers	9	424.50	47.17
	Ministers	15	880.50	58.70
	Music Teachers	1	31.50	31.50
	Physicians	28	1,534.00	54.79
	Physicians and Surgeons	1	42.50	42.50
	Probate Judges	1	45.50	45.50
	Retired Clergymen	1	85.50	85.50

TABLE XXIX.—CONTINUED.

Class.	OCCUPATIONS,—1873.	Number of Persons.	Age.	
			Aggregate.	Average.
X.	PROFESSIONAL MEN—(Continued.)			
	Students	2	45.00	22.50
	Surveyors	1	76.50	76.50
	Teachers	7	210.50	30.07
	Veterinary Surgeons	1	59.50	59.50
XI.	UNEMPLOYED	73	4,536.50	62.14
	Counterfeiters	1	85.50	85.50
	Idiotic	2	81.00	40.50
	Idiotic Paupers	1	22.50	22.50
	Paupers	4	302.00	75.50
	Retired	7	510.50	72.93
	Unemployed	58	3,535.00	60.95
XII.	FEMALES	1,967	94,956.50	48.27
	Agents	1	23.50	23.50
	"At Home"	3	150.50	50.17
	Authoress	1	31.50	31.50
	Barbers' Wives	1	27.50	27.50
	Blacksmiths	1	21.50	21.50
	Blacksmiths' Wives	1	25.50	25.50
	Boarding-house-keepers	1	68.50	68.50
	Cabinet-makers	1	32.50	32.50
	Carpenters	2	88.00	44.00
	Carpenters' Wives	1	45.50	45.50
	Clerks	1	27.50	27.50
	Clerks' Wives	2	51.00	25.50
	Contractors' Wives	1	39.50	39.50
	Cooks	3	146.50	48.83
	"County Charge"	1	69.50	69.50
	"County House"	1	30.50	30.50
	Dairy Women	1	82.50	82.50
	Dentists	1	23.50	23.50
	Domestics	16	648.00	40.50
	Domestic Helpers	1	24.50	24.50
	Dress-makers	10	302.00	30.20
	Engineers	1	28.50	28.50
	Farmers	153	7,802.50	51.00
	Farmers' Daughters	3	76.50	25.50

TABLE XXIX.—CONTINUED.

CLASS.	OCCUPATIONS,—1873.	Number of Persons.	AGE.	
			Aggregate.	Average.
XII.	FEMALES—(Continued.)			
	Farmers' Widows	2	172.00	86.00
	Farmers' Wives	141	6,943.50	49.24
	Fishermens' Wives	1	23.50	23.50
	"Helpers"	2	89.00	44.50
	Hotel Cooks	1	40.50	40.50
	Hotel-keepers' Wives	1	56.50	56.50
	House-keepers	1,052	50,750.00	48.24
	House Servants	4	133.00	33.25
	Housewives	174	8,122.00	46.67
	Houseworkers	55	2,655.50	48.28
	Insane	1	43.50	43.50
	Invalids	1	28.50	28.50
	"Keeping Wigwam"	1	50.50	50.50
	Laborers	19	728.50	38.34
	Laborers' Wives	2	111.00	55.50
	Landladies	1	45.50	45.50
	Laundresses	1	21.50	21.50
	Lawyers' Wives	2	93.00	46.50
	"Living with Son"	1	79.50	79.50
	Machinists' Wives	1	53.50	53.50
	Market Women	1	40.50	40.50
	Masons' Wives	1	25.50	25.50
	Mat-makers	1	75.50	75.50
	Matrons	6	297.00	49.50
	Mechanics' Wives	1	43.50	43.50
	Merchants' Wives	1	26.50	26.50
	Millers	1	20.50	20.50
	Milliners	5	162.50	32.50
	Music Teachers	1	63.50	63.50
	Nurses	3	148.50	49.50
	Painters' Wives	1	32.50	32.50
	Paupers	1	40.50	40.50
	Physicians	1	76.50	76.50
	Physicians' Wives	2	166.00	83.00
	Retired	4	307.00	76.75
	Retired Farmers	1	77.50	77.50
	Railroad Engineers	1	32.50	32.50

TABLE XXIX.—CONTINUED.

CLASS.	OCCUPATIONS,—1873.	Number of Persons.	AGE.	
			Aggregate.	Average.
XII.	FEMALES—(Continued.)			
	Saloon-keepers	2	73.00	36.50
	Seamstresses	20	780.00	39.00
	Servants	13	322.50	24.81
	Sewing Machine Agents	1	23.50	23.50
	Shoemakers	1	75.50	75.50
	Shoemakers' Wives	2	120.00	60.00
	Spinsters	1	80.50	80.50
	Students	1	23.50	23.50
	Tailoresses	9	515.50	57.28
	Tanners' Wives	1	69.50	69.50
	Teachers	26	657.00	25.27
	Unemployed	168	9,483.00	56.44
	Washers	6	224.00	37.33
	Weavers	5	357.50	71.50
	Widows	1	24.50	24.50
	Wives	8	345.00	43.13
	Writers	1	36.50	36.50

TABLE XXX.—*Exhibiting for the Year, for each Month, and an Average Month, during the Year 1873, the Mean Hight and Range of Barometer; the Direction of the Prevailing Winds; the Relative Humidity; the Per Cent. of Cloudiness; the Number of Days on which it Rained or Snowed; and the Depth of Rain and Melted Snow in Inches, at the Agricultural College, near Lansing, Michigan.*

YEAR AND MONTHS, 1873.	Barometer, Reduced to 32° Fahrenheit,—Average.	Range of Barometer.	Days of Prevailing Winds.								Relative Humidity, or Per Cent. of Saturation,—Av.	Per Cent. of Cloudiness of Sky,—Average.	Number of Days on which it Rained or Snowed.	Rain and Melted Snow, in Inches.	Ozone,—Relative. Maximum =10.	
			North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.					Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.
Year, 1873....	28.874	1.307	6	44	12	47	10	146	42	44	82	60	137	31.75	4.02	4.63
January.....	28.873	.880	....	6	2	1	2	9	4	3	95	79	15	2.98	5.06	6.32
February	28.847	.842	....	2	2	2	1	15	4	2	95	61	9	.77	4.21	5.93
March	28.852	1.307	....	2	....	6	....	16	4	3	86	62	15	1.73	4.09	5.80
April.....	28.798	.880	1	6	1	7	....	7	5	3	76	73	12	3.88	3.76	4.27
May	28.826	.897	3	3	3	6	1	5	6	4	72	58	13	3.05	4.58	4.59
June.....	28.840	.838	....	2	3	6	....	13	2	3	72	40	7	2.96	3.26	2.66
July	28.914	.453	1	5	1	5	....	11	6	2	75	51	10	5.12	3.59	3.06
August.....	28.927	.574	....	8	....	2	1	13	2	4	79	45	5	.80	3.55	2.65
September...	28.928	.779	....	1	....	1	2	18	2	6	80	48	9	3.50	2.30	4.27
October.....	28.917	1.022	....	2	....	5	....	18	1	4	80	55	15	1.91	4.52	4.69
November....	28.833	1.184	....	5	....	3	1	8	2	7	89	75	15	2.03	4.30	5.47
December....	28.929	1.173	1	2	....	3	2	13	4	3	89	75	12	3.02	4.97	5.89
Monthly Av..	28.874	.902	.50	3.67	1.00	3.92	.83	12.17	3.50	3.67	82	60	11.42	2.65	4.02	4.63

The meteorological data for Tables XXX. and XXXI. were obtained from the Report of the State Board of Agriculture, and are results of observations by Prof. R. C. Kedzie. For comments on the importance of these observations, because so nearly in the center of the thickly-settled part of the State, the reader is respectfully referred to pages 256–7 of this Report.

TABLE XXXI.—*Exhibiting the Mean Temperature; the Highest and Lowest Temperature; the Monthly Range; the Mean Daily Range; the Mean Range from Day to Day; and the Greatest Rise or Fall of Thermometer in 24 Hours, and in 14 Hours for each Month of the Year 1873, at the Agricultural College, near Lansing, Michigan.*

YEAR AND MONTHS, 1873.	TEMPERATURE,—FAHRENHEIT.									
	THREE OBSERVATIONS DAILY,—AT 7 A. M., 2 P. M., AND 9 P. M.				AVERAGE RANGE.		GREATEST CHANGE IN 24 HOURS.		GREATEST CHANGE IN 14 HOURS,—7 A. M. TO 9 P. M.	
	Mean.	Highest.	Lowest.	Range.	Daily.	From Day to Day.	Degrees of Rise and Fall.	Day of Month.	Degrees of Rise and Fall.	Day of Month.
Year, 1873	44.54°	94	—30	124	14.37°	17.67°	R. 52°	Mar. 5	R. 52°	Mar. 5
January	15.87°	44	—30	74	12.10°	15.81°	R. 35°	27	R. 35°	27
February	19.10	49	—13	62	14.61	18.71	R. 34	10	R. 27	15
March	28.30	49	—12	61	14.16	16.61	R. 52	5	R. 52	5
April	43.17	79	28	51	12.23	15.93	R. 33	5	R. 26	14
May	56.98	80	31	49	14.61	17.16	R. 38	3	F. 26	3 and 29
June	70.60	94	54	40	18.30	21.27	R. 34	1	R. 31	21
July	70.82	90	51	39	15.35	18.68	R. 30	21	R. 26	21
August	69.49	94	50	44	18.55	21.32	R. 35	24	R. 35	24
September	57.38	85	36	49	16.73	21.60	R. 38	26	R. 32	2 and 26
October	44.68	77	20	57	17.16	20.65	R. 37	9	R. 37	9
November	28.49	55	4	51	10.23	12.10	F. 34	4	R. 27	6
December	29.54	56	12	44	8.35	12.16	F. 40	4	R. 27	23

Meteorological data are given in many places in this Report in connection with special studies of the causes of diseases, but what is here given in Table XXX., XXXI., and XXXII. are additional, and may be needed for study in connection with the statistics of births, marriages, or deaths.

TABLE XXXII.—*By Months, some Meteorological Conditions at certain Localities in Michigan during the Year 1873.*

MONTHS, 1873.	DETROIT.				ESCANABA.				GRAND HAVEN.				MARQUETTE.			
	Average Barometer.	Average Temperature,—Fahr.	Total Rainfall, in Inches.	Prevailing Wind.	Average Barometer.	Average Temperature,—Fahr.	Total Rainfall, in Inches.	Prevailing Wind.	Average Barometer.	Average Temperature,—Fahr.	Total Rainfall, in Inches.	Prevailing Wind.	Average Barometer.	Average Temperature,—Fahr.	Total Rainfall, in Inches.	Prevailing Wind.
Year, 1873	29.972	46.4	33.90	W.	29.929	40.6	26.91	S.	29.949	45.6	24.34	S. W.	29.977	39.1	26.39	N. W.
January	30.019	20.6	3.20	S. W.	29.983	13.3	.56	N.	29.953	19.2	.....	S.	30.296	12.5	.43	N. W.
February	30.005	22.9	.32	N. W.	29.856	15.4	.86	S. E.	29.963	22.6	.91	W.	29.906	18.0	.23	N. W.
March	29.967	30.9	1.79	N. W.	29.886	23.9	1.89	N.	29.947	30.2	1.62	N. W.	29.941	25.0	.97	N. W.
April	29.885	42.0	4.74	N. W.	29.907	36.2	.35	N.	29.865	41.9	2.24	S. W.	29.958	35.4	1.12	N. W.
May	29.912	56.9	3.50	E.	29.875	50.9	2.93	S.	29.878	54.9	5.42	E.	29.959	45.2	1.64	N. W.
June	29.905	69.3	5.18	E.	29.866	69.3	4.88	S.	29.890	69.1	4.15	S. W.	29.879	59.0	4.25	S. E.
July	29.949	70.5	3.38	W.	29.922	68.4	3.33	S.	29.940	68.2	3.25	S. W.	29.922	63.1	6.73	N. W.
August	30.007	70.1	.19	E.	29.998	65.2	1.87	S.	29.996	69.1	1.95	W.	30.004	63.4	1.26	N. W.
September	29.993	60.9	3.28	S. W.	29.946	52.1	5.45	N. W.	29.976	57.8	2.30	S.	29.949	51.4	4.29	N. W.
October	29.999	47.9	2.60	W.	29.953	41.7	3.37	S.	29.979	46.9	2.50	W.	29.955	43.0	2.94	N. W.
November	29.947	32.2	1.03	W.	29.957	25.5	.62	W.	29.947	33.3	.....	N. W.	29.939	26.0	1.54	N. W.
December	30.071	32.7	4.69	W.	29.999	25.8	1.30	N. W.	30.056	34.0	.....	S. W.	29.993	26.8	.99	N. W.
Average Month	29.972	46.4	2.83	.....	29.929	40.6	2.24	.....	29.949	45.6	2.03	.....	29.977	39.1	2.20	.....

Table XXXII. is made from data obtained from the "Annual Report of the Chief Signal Officer to the Secretary of War," for the years 1873 and 1874.

LAWS OF MICHIGAN

CONCERNING THE

SOLEMNIZATION OF MARRIAGES,

AND THE

RECORD, RETURN, AND COMPILATION

OF

BIRTHS, MARRIAGES AND DEATHS;

WITH

SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES IN MICHIGAN.

CHAP. CLXIX., COMPILED LAWS OF 1871.

MARRIAGE AND THE SOLEMNIZATION THEREOF.

SECTION.
4719. Who shall be capable of contracting Marriage.
4720. Marriage is a civil contract.
4721. Who shall not intermarry.
4723. 4724. Who not to marry.
4725. Marriage, by whom solemnized.
4726. One of parties to be examined on oath.
4727. No particular form required.
4728. Forfeiture for joining persons in Marriage contrary to law.
4729. Punishment of persons unauthorized, etc.
4730. Marriages not void in certain cases.
4731. Marriages among Quakers, etc.
4732. Certificates and record made evidence.

Chapter Eighty-three of Revised Statutes of 1846.[a]

(4719.) SECTION 1. Every male who shall have attained the full age of eighteen years, and every female who shall have attained the full age of sixteen years, shall be capable in law of contracting marriage, if otherwise competent.

(4720.) SEC. 2. Marriage, so far as its validity in law is concerned, is a civil contract, to which the consent of parties capable in law of contracting is essential.

(4721.) SEC. 3. No man shall marry his mother, grandmother, daughter, granddaughter, stepmother, grandfather's wife, son's wife, grandson's wife, wife's mother, wife's grandmother, wife's daughter, wife's granddaughter, nor his sister, brother's daughter, sister's daughter, father's sister, or mother's sister.

(4722.) SEC. 4. No woman shall marry her father, grandfather, son, grandson, stepfather, grandmother's husband, daughter's husband, granddaughter's husband, husband's father, husband's grandfather, husband's son, husband's grandson, nor her brother, brother's son, sister's son, father's brother, or mother's brother.

(4723.) SEC. 5. No marriage shall be contracted whilst either of the parties has a former wife or husband living, unless the marriage with such former wife or husband shall have been dissolved.

(4724.) SEC. 6. No white person shall intermarry with a negro, and no insane person or idiot shall be capable of contracting marriage.

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[a] For prior Statutes relative to the solemnization of Marriges, see Woodward Code, p. 42; Cass Code, p. 111; Code of 1820, p. 259; Rev. of 1827, p. 280; Laws of 1832, p, 6; Rev. of 1838, p. 329; R. S. of 1838, p. 333.

(4725.) SEC. 7. Marriages may be solemnized by any justice of the peace in the county in which he was chosen, and they may be solmnized throughout the State by any minister of the gospel who has been ordained according to the usages of his denomination, and who is a pastor of any church or churches in this State, or who shall continue to preach the gospel in this State: *Provided*, That all non-resident ministers of the gospel who are authorized by this act to solemnize marriages, shall keep proper records and make returns as required by section two, chapter sixteen, of the compiled laws of eighteen hundred and seventy-one.[a] [b]

(4726.) SEC. 8. All justices of the peace and ministers of the gospel are hereby authorized and required, before solemnizing any marriage, to examine at least one of the parties on oath, which oath they are hereby authorized to administer, as to the legality of such intended marriage.

(4727.) SEC. 9. In the solemnization of marriages, no particular form shall be required, except that the parties shall solemnly declare, in the presence of the magistrate or minister, and the attending witnesses, that they take each other as husband and wife; and in every case there shall be at least two witnesses, besides the minister or magistrate, present at the ceremony.

SEC. 10.[c]

SEC. 11.[c]

SEC. 12.[c]

SEC. 13.[c]

(4728.) SEC. 14. If any justice of the peace or minister of the gospel shall join any person in marriage contrary to the provisions of this chapter, he shall forfeit for every such offense a sum not exceeding five hundred dollars.

(4729.) SEC. 15. If any person shall undertake to join others in marriage, knowing that he is not lawfully authorized so to do, or knowing of any legal impediment to the proposed marriage, he shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be punished by imprisonment in the county jail not more than one year or by a fine not less than fifty nor more than five hundred dollars, or by both such fine and imprisonment, in the discretion of the court.

(4730.) SEC. 16. No marriage solemnized before any person professing to be a justice of the peace or a minister of the gospel, shall be deemed or adjudged to be void, nor shall the validity thereof be in any way affected, on account of any want of jurisdiction or authority in such supposed justice or minister: *Provided*, The marriage be consummated with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

(4731.) SEC. 17. The preceding provisions of this chapter, so far as they relate to the manner of solemnizing marriages, shall not affect marriages among the people called Friends or Quakers; nor marriages among people of any other particular denomination having, as such, any peculiar mode of solemnizing marriages; but such marriages may be solemnized in the manner heretofore used and practiced in their respective societies or denominations.

(4732.) SEC. 18. The original certificates and records of marriage made by the minister or justice, as prescribed in this chapter, and the record thereof made by the county clerk, or a copy of such record duly certified by such clerk, shall be received in all courts and places as presumptive evidence of the fact of such marriage.

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[a] As amended by Act No. 85, Laws of Michigan, 1873.
[b] Previous to 1871 the mayor of Flint was also authorized to solemnize marriages.
[c] Repealed by Act 194, Laws of 1867, p. 266, Sec. 10.

AN ACT

TO PROVIDE FOR THE

REGISTRATION OF BIRTHS, MARRIAGES, AND DEATHS.

BEING ACT No. 194 OF 1867, AS AMENDED BY ACT No. 125 OF 1869.

Duties of supervisors and assessors.

In 1869 returns to be made from April 5 to Dec. 31, 1868.

Return to county clerk.

In 1870 and thereafter.

Returns to include from January to December last preceding.

Statstics, how obtained.

Compensation.

Proviso relative to the city of Detroit.

Duty of common council.

Persons to be appointed by.

SECTION 1. *The People of the State of Michigan enact,* That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: *Provided,* That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city as shall be necessary to perform said duties within the time limited by this act; and such person shall possess all the authority conferred upon, and perform all the duties required of supervisors

and assessors, by this act, within the territory assigned them respectively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

Compensation of persons so appointed.

How paid.

Penalties.

SEC. 2. Every justice of the peace, minister of the gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.[a]

Marriages to be recorded.

Marriage of Quakers.

Certificates to be furnished.

Fee for recording.

SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities, or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the christian

County clerks; duties of.

Births, marriages, and deaths to be numbered and indexed.

Record of births shall state.

Proviso.

Record of marriages shall state.

[a Blanks for return of marriages to the county clerk are prepared by the Secretary of State, and sent to the clerks of the several counties, from whom they may be obtained upon application.]

and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made.

Record of deaths shall state.

The record of deaths shall state, in separate columns, the date of the death, the christian and surname of the deceased, the sex and color, whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made.

Return of county clerk.

The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records of his office, of all the births, marriages, and deaths reported in their respective counties for the year ending December thirty-first, last preceding.

Compensation.

And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

Secretary of State shall furnish all blank books, blanks, instructions, etc.

SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

Returns to be bound and indexed.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State for that purpose,* he shall prepare such tabular statements, results, and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

Secretary of State to make annual report.

Neglect to keep records.

SEC. 6. Every justice of the peace, minister of the gospel, and

* Practically amended by Section 10 of Act No. 81, Laws of Mich., 1873, printed on page 327.

all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

Neglect to deliver certificates.

Penalty.

SEC. 7. Every physician, surgeon, or midwife, who shall have been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease, or cause (if known), producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

Certificate of death.

Refusal to make certificate.

Penalty.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail vessels, navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer) in relation to any birth or death within his township, city, or any ward therein, of which such per-

Facts to be obtained by supervisor.

Refusal to furnish.

Obtained under oath.

son or persons may have any knowledge or information; and if any person, after being duly subpœnaed (as provided for compelling the attendance of witnesses in justices' courts) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who, after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Neglecting to answer a subpœna.

Penalty.

Perjury.

Proviso.

Neglect to perform duties.

Penalty.

Misdemeanor.

SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

Sections repealed.

SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding sections. And such county clerks as have made returns of births, marriages, and deaths to the Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

AN ACT to establish a State Board of Health, to provide for the appointment of a Superintendent of Vital Statistics, and to assign certain duties to Local Boards of health, being Act No. 81, Laws of 1873.

* * * * * * * * *

SEC. 10. The Secretary of the State Board of Health shall be the Superintendent of Vital Statistics. Under the general direction of the Secretary of State, he shall collect these statistics, and prepare and publish the report required by law relating to births, marriages, and deaths. Secretary of State Board of Health to be Superintendent of Vital Statistics.

* * * * * * * * *

Approved April 12, 1873.

SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES IN MICHIGAN.

A thorough knowledge of the law concerning the solemnization and return of marriages in Michigan is necessary to a correct performance of the duties of persons authorized to solemnize marriages.

The most frequent violation of the law is in the marriage of persons *under the lawful age*, which is: for males, eighteen (18) years, and for females sixteen (16) years. See section (4719) Compiled Laws of 1871, printed on a previous page. The penalty for the violation of this provision is a forfeit of not exceeding five hundred (500) dollars. See Sec. (4728), Compiled Laws of 1871, printed on a previous page.

In the record and return of marriages, every item specified in the law should be carefully ascertained, and correctly and plainly written. No item should be omitted, and nothing taken for granted, as is often the case with the fact as to COLOR of persons married.

In recording the BIRTHPLACE of each, the State or country should be distinctly given in each case. This will avoid the difficulty of ascertaining the nativity of persons whose birthplace is returned "Holland," "Hanover," "Denmark," "Wales," "Paris," etc., etc.,—names of places which may be either in the United States or Europe. If such or similar names occur, please state whether it is Holland, *Michigan*, or Holland, *Europe*, and so for each

case. Never return the birthplace "America," as we cannot know whether it is in the United States, and are therefore compelled to compile it with the "Unknown." For statistical purposes it is desirable that *every* item be furnished which is called for by the blank upon which you make your returns to your county clerk, *giving close attention to the foot-notes upon the blank.*

In making your returns to the county clerk, you should give your *official station*, as well as your name.

Blanks for the return of marriages to the county clerk can be obtained of the county clerk, who can obtain them from the Secretary of State, at Lansing.

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ERRATA.

In Table XXV., page 72, and Table XXVI., page 73, in the left-hand column of months, under "Deaths," transpose January, 1873, above the Average, and change the number for Average. January, 1873, March, 1873, and February, 1873, to read as follows: January, 1873, 1,402; Average, 1,438; March, 1873, 1,936; February, 1873, 1,946; also, in the same Tables, in the right-hand column of months, under "Conceptions," there should be a reference letter c opposite January, 1873. In consequence of this error, that part of the line in Diagram No. 1, page 5, representing the deaths in January, February, and March, 1873, is too high.

In Table XI., page 47, in the second column of Per Cent., opposite "Different State or Country," the Per Cent. should read 43.67, instead of 4.37.

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